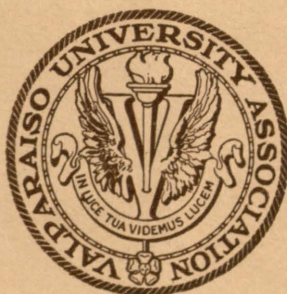


VALPARAISO UNIVERSITY BULLETIN

Sixty-Eighth Year

Announcements for
1930-1931



Valparaiso, Indiana

VALPARAISO UNIVERSITY BULLETIN

New Series, Vol. 4.

June 12, 1930

No. 12

Sixty-Eighth Year

Announcements for
1930-1931



Arthur F. Peterson V.U. 1920

Published weekly by Valparaiso University Association

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the Act of August 24, 1912.

APPLICATION FOR ADMISSION

(For New Students Only)

VALPARAISO UNIVERSITY

VALPARAISO, INDIANA

Fill out fully all that is requested, in your own handwriting, and forward at once to the Registrar, Valparaiso University, Valparaiso, Indiana. Students are advised to send preliminary fees by Postal Money Order, Bank Draft or Check. Do not send cash. Please make remittance payable to the Valparaiso University Association.

Date.....19....

1. Name in Full.....
2. Address
 Number and Street City State
3. Date of Birth.....Present Occupation.....
4. High School Preparation:
 - a. Name of High School.....
 - b. Address
 - c. Date of Graduation, if a graduate.....
 - d. Number of years in High School.....
5. Previous College Attendance.....
 - a. Name of College or University.....
 - b. Address
 - c. Course.....
 - d. Rank (Underline one) Freshman, Sophomore, Junior, Senior.
6. Of what church or other religious organization, if any, are you a member?
7. What special recognition, if any, have you received for excellence in school work, such as honors, prizes or scholarships?.....
.....
8. In what studies are you particularly interested?.....
.....
9. When do you expect to enter?.....
10. A Matriculation Fee of five dollars must accompany this application.
The Matriculation Fee is refunded to applicants who are not accepted.

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VALPARAISO UNIVERSITY

Approved by—

Indiana State Board of Education as a Class "A" College and University for teacher training.

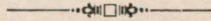
The Council on Medical Education of the American Medical Association for Pre-Medical Education.

American Bar Association.

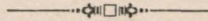
Member of—

North Central Association of Colleges and Secondary Schools.

American Association of Colleges of Pharmacy.



American Association of Collegiate Registrars.



Indiana Intercollegiate (Athletic) Conference.

UNIVERSITY CALENDAR

1930

Meeting of Student Advisory Committee, Monday, September 15, 9 A. M.
Freshman Days, Tuesday and Wednesday, September 16 and 17.
First semester begins Thursday, September 18.
Registration of Upperclassmen, Thursday, September 18.
First Convocation, Friday, September 19.
Recitations begin Friday, September 19.
First chapel exercise, Monday, September 22.
Registration closes at 12:00 M., Saturday, October 4.
Thanksgiving Recess, November 27, 28, 29, 30.
Christmas holidays begin Saturday, December 20.

1931

Christmas holidays end Sunday, January 4.
Recitations resumed, Monday, January 5.
First semester examinations, January 31, February 2 to 7.
First semester ends Saturday, February 7.
Second semester begins Monday, February 9.
Registration for second semester, Monday, February 9.
Recitations begin Tuesday, February 10.
Registration for second semester closes at 12:00 M., Saturday, February 21.
Easter Recess, April 3, 4, 5, 6.
Memorial Day, a holiday, Saturday, May 30.
Second semester examination, June 6, 8 to 13.
Second semester ends Saturday, June 13.
Commencement Day, Sunday, June 14.

SUMMER SESSION, 1930

Registration, June 16.
First five-week session, June 16 to July 19.
Second five-week session, July 20 to August 22.

SUMMER SESSION, 1931

Registration, June 15.
First five-week session, June 15 to July 18.
Second five-week session, July 20 to August 22.

1930

[illegible]

1931

JANUARY						
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JUNE						
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PART I

OFFICERS OF ADMINISTRATION AND INSTRUCTION

BOARD OF DIRECTORS*

Harry A. Eberline, *President*

Ralph E. Richman, *Vice-President*

Frank J. Lankenau, *Honorary Vice-President*

WILLIAM C. DICKMEYER.....	Fort Wayne, Indiana
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PAUL F. MILLER.....	Fort Wayne, Indiana
OTTO MISCH.....	Detroit, Michigan
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HENRY F. ROHRMAN.....	Chicago, Illinois
FRED WEHRENBURG.....	Fort Wayne, Indiana

Paul F. Miller, *Secretary*

William C. Dickmeyer, *Treasurer*

*1929-30.

WOMEN'S WELFARE COMMITTEE*

MRS. A. F. AMLING.....	Maywood, Illinois
MRS. T. H. CLAUSSEN.....	Valparaiso, Indiana
MRS. J. P. HEMMETER.....	Detroit, Michigan
MRS. P. W. MEYN.....	Hammond, Indiana
MRS. H. F. ROHRMAN.....	Wilmette, Illinois

*1929-30.

STANDING COMMITTEES OF THE BOARD

EXECUTIVE COMMITTEE

COMMITTEE ON INSTRUCTION

COMMITTEE ON FINANCE AND INVESTMENT

COMMITTEE ON BUDGET

COMMITTEE ON BUILDINGS AND GROUNDS

COMMITTEE ON AUDIT

ADMINISTRATIVE ORGANIZATION

I.

THE COLLEGE OF LIBERAL ARTS

Department of Biology.
Department of Business Management and Economics.
Department of Chemistry.
Department of Education and Psychology.
Department of Engineering.
Department of English Language and Literature.
Department of Fine Arts.
Department of Foreign Languages and Literatures.
Department of Geology.
Department of Health and Physical Education.
Department of Home Economics.
Department of Mathematics and Physics.
Department of Religion and Philosophy.
Department of Social Science.

II.

THE COLLEGE OF PHARMACY

III.

THE SCHOOL OF LAW

ADMINISTRATIVE OFFICERS

(1929-1930)

Frederick W. Kroencke, Ph.D.....Chairman of
Administrative Council, Dean of the University and of the College
of Liberal Arts.
John C. Baur.....Secretary of
Administrative Council, Business Manager.
Henry H. Kumnick, A.B., LL.B.....Member of
Administrative Council, Dean of Students.
Frederick V. Lofgren, M.A.....Acting Dean of the College of Pharmacy
John W. Morland, A.M., J.D.....Acting Dean of the School of Law
Albert F. Scribner, B.C.S.....Registrar
Katharine Ertz Bowden, B.S.....Librarian
Gerald D. Stoner, M.D.....University Physician
Catharine Corboy.....Alumni Secretary

GENERAL FACULTY AND OFFICERS OF INSTRUCTION

(1929-1930)

William H. T. Dau, D.D., *President Emeritus.*

Frederick W. Kroencke, Ph.D., *Chairman of Administrative Council.*

John C. Baur, *Secretary of Administrative Council.*

PROFESSORS

Harry Edmund Bilger, M.S., *Professor of Civil Engineering.*

Bucknell University, Ph.B., 1903; University of Missouri, B.S. in C.E., 1907; Bucknell University, M.S., 1915; *ibid.*, C.E., 1923; University of Michigan, eight weeks Summer Session, 1926; University of Wisconsin, six weeks Summer Session, 1928.

Edmund Walter Chaffee, Mus.D., *Professor of Music.*

Stern's Conservatory, Berlin, student, 1887-90; *ibid.*, Assistant in Music, 1889-90; piano under Liebling and Sherwood, voice under Root, Burritt, and Gottschalk, organ under Gleason and Middleschulte, composition under Koelling, 1890-95; Valparaiso University, Mus. D., *hon.*, 1920.

Harry Victor Fuller, Ph.D., *Professor of Chemistry.*

University of Minnesota, student, 1903; Polytechnique Federal of Basel, Switzerland, student, 1909-12; University of Zurich, student, 1910-12; University of Basel, A.M., 1912; *ibid.*, Ph.D., 1912.

Frederick William Kroencke, Ph.D., *Professor of Philosophy and Religion.*

Concordia Theological Seminary, St. Louis, Missouri, diploma, 1895; University of Cincinnati, A.B., 1924; Taft Fellow, 1926-1927; *ibid.*, Ph.D., 1927.

Edna M. Robinson, Ph.D., *Professor of English Literature.*

University of Chicago, A.B., 1909; *ibid.*, A.M., 1915; Johns Hopkins University, Ph.D., 1917.

Joseph J. Weber, Ph.D., *Professor of Education and Psychology.*

University of North Dakota, A.B., 1916; *ibid.*, M.A., 1917; Columbia University, Ph.D., 1921.

ASSOCIATE PROFESSORS

Robert Christian Kissling, Ph.D., *Associate Professor of Classics and Spanish.*

Concordia College, Milwaukee, diploma, 1898; Concordia Theological Seminary, St. Louis, Missouri, diploma, 1901; University of Chicago, Fellow in Greek, 1911-12; *ibid.*, Ph.D., 1913.

Audie John Lynn, M.A., C.P.A., *Associate Professor of Business Management.*

Bowling Green College of Commerce, Ky., B.C.S., 1912; Indiana University, A.B., 1917; Toledo University, M.A., 1919; University of Wisconsin, graduate work, 1919-20; University of Chicago, graduate work, 1921-23; Certified Public Accountant, Indiana, 1924; residence requirements for Ph.D. at University of Chicago completed.

John Wallace Morland, J.D., *Associate Professor of Law.*

Indiana State Normal School, diploma, 1910; Indiana University, A.B., 1916; *ibid.*, LL.B., A.M., 1917; University of Chicago, J.D., 1922.

Ross Winship, M.S., *Associate Professor of Mechanical Engineering.**

Cornell University, M.E., 1911; Columbia University, A.M., 1927; Columbia University two six-week Summer Sessions, 1927 and 1928.

*First semester, to January 9, 1930.

ASSISTANT PROFESSORS

- Walter Emil Bauer, M.A., *Assistant Professor of History*.^{*}
Concordia College, Ft. Wayne, diploma, 1917; Concordia Theological Seminary, St. Louis, diploma, 1921; Columbia University, M.A., 1922; Harvard University, student, 1922-23.
- Virgil Edwin Berry, LL.B., *Assistant Professor of Law*.
Indiana University, LL.B., 1909; Logansport, Indiana, Attorney at Law, 1911-1913.
- Margarette Ball Dickson, M.A., *Assistant Professor of English Language and Literature*.
Iowa State Teachers College, A.B., 1925; University of South Dakota, M.A., 1927; Graduate work, University of Iowa, three five-week Summer Sessions, 1926-1928.
- Frank R. Elliott, Ph.D., *Assistant Professor of Zoology*.
Earlham College, B.S., 1911; *ibid.*, M.A., 1912; Wilmington College, B.A., 1916; Ohio State University, Ph.D., 1929.
- Jerome Richard Finkle, J.D., *Assistant Professor of Law*.[†]
Valparaiso University, A.B., 1917; University of Chicago, J.D., 1922.
- Arthur C. Harwood, Ph.H., *Assistant Professor of Pharmacognosy and Pharmacology*.
University of Wisconsin, B.S., 1923; *ibid.*, M.S., 1926; *ibid.*, Ph.D., 1929.
- Carl W. Lauritzen, M.S., *Assistant Professor of Electrical Engineering*.^{*}
University of Minnesota, B.S. in E.E., 1924; *ibid.*, M.S., 1929.
- William Gray Loehr, LL.B., *Assistant Professor of Law*.
Winona College, Indiana, A.B., 1915; Indiana University, A.B., 1917; Indiana University, LL.B., 1918; Harvard University, graduate work, 1920-21; Warsaw, Indiana, Attorney at Law, 1921-1928; Prosecuting Attorney, 1927-28.
- Frederick V. Lofgren, M.A., *Assistant Professor of Pharmacy*.
University of Washington, B.S., 1924; *ibid.*, M.S., 1925; *ibid.*, graduate work 1925-29. Residence requirements for Ph.D. completed, 1929.
- Walther M. Miller, M.A., *Assistant Professor of German*.
Concordia College, Ft. Wayne, diploma, 1916; Concordia Theological Seminary, St. Louis, diploma, 1919; Harvard University, M. A., 1922; Harvard University, student, 1919-1923.
- Rene Wentworth Pinto, Ph.D., *Assistant Professor of Political Science*.
New York Military Academy, diploma, 1914; *ibid.*, graduate student, 1914-16; United States Military Academy, student, 1916-17; University of Wisconsin, A.B., 1922; Columbia University, A.M., 1925; University of Wisconsin, Ph.D., 1927.
- Ancil R. Thomas, M.S., *Assistant Professor of Physics*.
Earlham College, B.S., 1925; Washington University, M.S., 1927; resident requirement for Ph.D. at Washington University completed, 1929.
- Walter Eugene Thrun, Ph.D., *Assistant Professor of Chemistry*.
University of Michigan, A.B., 1912; *ibid.*, M.S., 1914; University of Missouri, Ph.D., 1917; Johns Hopkins University, Fellow in the School of Hygiene and Public Health 1919.
- Arthur Hoyt Uhl, M.S., *Assistant Professor of Pharmacognosy*.[‡]
University of Wisconsin, Ph.G., 1921; *ibid.*, B.S. in Pharmacy, 1925; *ibid.*, M.S. in Pharmaceutical and Plant Chemistry, 1927; *ibid.*, graduate work, two six-week Summer Sessions, 1927 and 1928; *ibid.*, 1929-30.

INSTRUCTORS

- Charles Oscar Anderson, *Instructor in Art*.
Chicago Art Institute, diploma, 1923-26; Chicago Art Institute, graduate work, 1926-27.
- Richard Herman Bauer, M.A., *Instructor in History*.[§]
University of Chicago, B.A., 1922; *ibid.*, M.A., 1927; residence requirements for Ph.D. at University of Chicago completed.

^{*}On leave of absence since January 13, 1930.

[†]Since February 10, 1930.

[‡]On leave of absence, academic year 1920-30.

[§]Since January 13, 1930.

Herman Blickensderfer, B.S., *Instructor in Civil Engineering.*

Missouri School of Mines and Metallurgy, B.S., 1927.

Jacob Melius Christiansen, A.B., *Instructor in Physical Education for Men.*

St. Olaf College, A.B., 1924; Superior Normal, graduate work, one six weeks Summer Session, 1924; *ibid.*, three weeks Summer Session, 1927; Normal, Bemidji, Minnesota, graduate work, three weeks Summer Session, 1927; University of Michigan, graduate work, six weeks Summer Session, 1929.

Paul Tillson Copp, M.A., *Instructor in Mathematics.*

Ohio State University, A.B., 1921; *ibid.*, M.A., 1922; *ibid.*, graduate work, eleven weeks Summer Session, 1922; University of Chicago, graduate work, eleven weeks Summer Session, 1927; *ibid.*, six weeks Summer Session, 1928.

Stacey LeRoy Green, A.B., *Instructor in Piano.*[†]

Northland College, Wisconsin, A.B., 1922; Piano under Dagmar Valle-Hansen, Oslo, Norway, 1922-23.

Helen J. Gross, A.B., *Instructor in Physical Education for Women.*

Pennsylvania College for Women, A.B., 1922; residence requirements for M.A. at University of Chicago completed, 1929.

Fred Henry Kaufmann, M.S., *Instructor in Botany.*

University of Wisconsin, B.S., 1925; Michigan State College, M.S., 1926; University of Wisconsin, six weeks Summer Session, 1928.

Donald Dean Mallory, B.S., in M.E., *Instructor in Electrical Engineering.**

Valparaiso University, B.S., in M.E., 1928.

Alfred Herman Meyer, M.A., *Instructor in Geology and Geography.*

University of Illinois, A.B., 1921; *ibid.*, A.M., 1923; University of Chicago, twelve weeks Summer Session, 1924; *ibid.*, twelve weeks Summer Session, 1926; Northwestern University, eight weeks Summer Session, 1927; University of Michigan, two eight-week Summer Sessions, 1928 and 1929.

Homer Dewitt Morrow, M.A., *Instructor in Public Speaking.*

Nebraska State Teachers College, A.B., 1927; *ibid.*, graduate work, 1927-28; University of Colorado, graduate work, four weeks Summer Session, 1929.

Ernest Frederick Peterson, M.S., *Instructor in Electrical Engineering.*

University of Colorado, B.S. in E.E., 1916; *ibid.*, M.S. in E.E., 1928.

Elizabeth Anna Marie Rechenberg, A.B., *Instructor in Botany.*

Valparaiso University, A.B., 1921; Indiana University, M.A., 1929.

Edna Bertha Marie Seebach, B.S., *Instructor in Home Economics.*

The Stout Institute, Menomonie, Wisconsin, diploma, 1921; University of Minnesota, B.S., 1924; Columbia University, graduate work, three six-week Summer Sessions, 1927, 1928 and 1929.

Frederick I. Schweppe, M.B., *Instructor in Public School Music.*

Minneapolis School of Music, diploma, 1920-1922; MacPhail School of Music, M.B., 1922-24; University of Minnesota, graduate work, three six-week Summer Sessions, 1922, 1923 and 1929.

Hazel Dieseth Schweppe, M.B., *Instructor in Voice.*

MacPhail School of Music, M.B., 1927; Voice under Saenger, Klibansky, Peccia, Seagle, Proschowsky; Piano under von Buelow.

[†]Since February 10, 1930.

*Since January 13, 1930.

A. M. Skinner, M.A., *Instructor in Economics and Sociology.*

University of Kentucky, A.B., 1926; Butler University, M.A., 1929.

Hazel B. Tallman, M.A., *Instructor in Romance Languages.*

Montana State College, B.S., 1925; National University of Mexico, graduate work 1927; University of Iowa, M.A., 1929.

Ralph S. Trosper, M.E., *Instructor in Mechanical Engineering.**

Berea College, Ped.B., 1916; University of Kentucky, B.S. in M.E., 1925; *ibid.*, B.S. in E.E., 1925; University of Tennessee, M.E., 1929.

Moses Walter Uban, A.B., *Instructor in Engineering and Mathematics.*

Valparaiso University, A.B. in Education, 1922; University of Chicago, graduate work, six weeks Summer Session, 1922; *ibid.*, part-time graduate work, 1927 and 1928.

Walter Jackson Wakefield, M.A., LL.B., *Instructor in Law.†*

Indiana University, A.B., 1913; *ibid.*, A.M., 1915; Valparaiso University, LL.B., 1926; University of Chicago, graduate work, twelve weeks, Summer Session, 1925; *ibid.*, six weeks Summer Session, 1925; *ibid.*, six weeks Summer Session, 1926.

Irving Lee Winslow, *Instructor in Violin.*

Clef Studios, Minneapolis, 1924-1927; Violin under Florence Austin, 1921-1926; Violin under Musin, 1928-1929.

Myers Elwood Zimmerman, A.B., *Instructor in Shorthand, Typewriter and Penmanship.*

Valparaiso University, A.B. in Education, 1921.

PART-TIME INSTRUCTOR AND LECTURERS

August Bucci, *Instructor in Wind Instruments.*

Brass instruments under Guiseppe Morani, 1917-1921; instruction in band under Edward Chenette, 1918-1920; soloist in Luigi Lombardi's Symphony Orchestra, 1920-21; brass instruments, under B. F. Tabor, 1921-1922; Chicago Conservatory of Music, trumpet under Noah Tarantino, 1925; first trumpet with Harl Smith's Pathé Recording Orchestra, 1926; Valparaiso University, 1927-1930; two five-week Summer Sessions, 1929.

Grant Crumpacker, LL.B., *Lecturer in Law.*

Valparaiso University, LL.B., 1894; Valparaiso, Indiana, Attorney at Law, since 1894; Valparaiso University, Instructor in Law, 1894-1909; Porter County, Indiana, County Attorney, 1906-1927; *ibid.*, Judge of Circuit Court, since 1927.

John P. Crumpacker, LL.B., *Part-time Instructor in Law.*

Indiana University, LL.B., 1923; Valparaiso, Indiana, Attorney at Law, since 1923; Porter County, Ind., Deputy Prosecuting Attorney, 1924-25.

Jesse Wilson Gammon, LL.B., *Part-time Instructor in Law.*

Valparaiso University, LL.B., 1922; Gary, Ind., Attorney at Law, since 1922.

Henry Herman Kumnick, A.B., LL.B., *Part-time Instructor in Law and Religion.*

Concordia College, Milwaukee, diploma, 1911; Concordia Theological Seminary, St. Louis, diploma, 1914; University of Montana, A.B., 1922; *ibid.*, LL.B., 1924.

Alfred J. Link, Ph.B., J.D., *Lecturer in Law.*

University of Chicago, Ph.B., 1916; *ibid.*, J.D., 1917; La Porte, Ind., Attorney at Law, since 1919; *ibid.*, City Attorney, 1926-1929; Laporte County, Judge of Circuit Court, since 1929.

*Since January 20, 1930.

†From November 6, 1929, to February 8, 1930.

H. H. Loring, LL.B., *Lecturer in Law.*

Valparaiso University, LL.B., 1894; Valparaiso, Indiana, Attorney at Law, since 1894; *ibid.*, City Attorney, 1902-1908; Porter County, Judge of Circuit Court, 1915-1927.

William W. Miller, LL.B., *Lecturer in Law.*

Tri-State College, diploma, 1904; University of Denver, A.B., 1906; University of Wisconsin, LL.B., 1910; Gary, Ind., Attorney at Law, since 1910; President of Gary Bar Association and Vice-President of State Bar Association, 1929.

Daniel J. Moran, A.B., LL.B., *Lecturer in Law.*

Indiana State Normal School, diploma, 1893; Indiana University, A.B., 1895; Indiana University, LL.B., 1898; Hammond, Ind., Attorney at Law, since 1898.

Anna Theodata Morony, *Part-time Instructor in Organ.*

Valparaiso Normal School, diploma, 1895; piano under Rinfrock, Ganz, and Godowski; organ under Havens, Wild, and Middleshulte.

E. Miles Norton, LL.B., *Lecturer in Law.*

Valparaiso University, LL.B., 1904; Lake County, Ind., Judge of Circuit Court, since 1919.

Benjamin Clifford Rees, LL.B., *Part-time Instructor in Law.*

Indiana University School of Law, LL.B., 1908; LaPorte, Ind., Attorney at Law, since 1909.

Gerald Mayden Stoner, M.D., *Lecturer in Hygiene and University Physician.*

Valparaiso University, Ph.G., 1897; Wabash University, B.S., 1901; Chicago College of Medicine and Surgery, 1905.

CRITIC TEACHERS

Helen Mabel Benney, Ph.B., *Training Teacher of English, Valparaiso High School.*

Elenor T. Bisbee, A.B., *Training Teacher of History, Valparaiso High School.*

Joseph Beasley Brown, A.B., *Training Teacher of Manual Arts, Valparaiso High School.*

Franklin Leslie Busenburg, A.B., *Principal of the Crown Point High School, Crown Point, Ind.*

Homer Marion Jessee, A.B., *Training Teacher of Mathematics and Principal of Valparaiso High School.*

Mary Stevens Meyers, B.M., *Training Teacher of Music, Valparaiso Schools.*

Frieda Aldinger Schenck, Ph.B., *Training Teacher of Mathematics, Valparaiso High School.*

Ralph Eugene Schenck, M.A., *Training Teacher of History and Commercial Subjects, Valparaiso High School.*

Helen Schudel, B.S., *Training Teacher of Physical Education, Valparaiso High School.*

Hazel Dell Sowers, B.S., *Training Teacher of Arithmetic and History, Seventh Grade, Valparaiso Junior High School.*

Carl C. Stevason, B.S., *Training Teacher of Industrial Arts, South Bend City Schools, South Bend, Ind.*

Maud Thomas, Ph.B., *Training Teacher of third grade work, Banta School, Valparaiso, Ind.*

Onita Thomas, A.B., *Training Teacher of German and Latin, Valparaiso High School.*

Naomi Turner, *Training Teacher, Fourth Grade, Banta School, Valparaiso, Ind.*

Marian VanHoozen, *Training Teacher of English, Valparaiso High School.*

Russell Harrison White, A.B., *Principal of Valparaiso Junior High School.*

STUDENT ASSISTANTS

In Business Management

Esther Luecke

Herbert Graebner

In Chemistry

Rodger S. Carlson

Donald Tursman

In Foundry

LeRoy Shimek

In Physics

Renel Tillman

In Music

Bernice Swanberg

In the College of Pharmacy

Carl Murray

Stanley Stypinski

In the Law Library

Joe C. Berbling

Hilbert W. Dahms

J. W. Ballard

In Zoology

Helen Kroencke

In the University Library

Maria Friederich

Selma Kroencke

Clara Nieting

Ruth Summers

PART II

GENERAL INFORMATION

THE AIMS OF THE UNIVERSITY

Valparaiso University is committed to that ideal in education according to which the development of character is intended to keep pace with the growth of the student's physical and intellectual powers. While the University aims, therefore, to impart knowledge and to improve skill, its prime objective is to inspire and to train the student to use his increasing powers not for himself only, but also for others and to put the Christian motive into his service.

With this objective always in view, the student is given a thorough survey of the material and social world during his freshman and sophomore years in order that he may have, first of all, a basic and a wholesome appreciation of past contributions to civilization. Upon this foundation of general understanding and culture there is built a definite course of study in some chosen field of specialization during the student's junior and senior years or during his years of professional training.

Accordingly, Valparaiso's invitation is directed to parents who desire to provide, and to prospective students who desire to secure, a liberal education.

Students of all denominations are welcomed.

LOCATION

The University is located at Valparaiso, Indiana, forty-four miles southeast of Chicago. Valparaiso is a city of some ten thousand inhabitants; it is the county seat of Porter County and is in a thriving agricultural region adjoining the populous industrial communities centering about Chicago. Gary, Hammond, Indiana Harbor, Whiting, Michigan City, La Porte, and South Bend are within easy reach. The Lincoln Highway and the Yellowstone Trail give easy access to the city for those who travel by automobile. Three railroads, the Pennsylvania, the Grand Trunk, and the Nickel Plate give Valparaiso service better than that boasted by many larger communities. Excellent commutation service is maintained with Chicago. An electric interurban line links the city with Gary.

The city is beautifully located approximately on the crest of what is called the Valparaiso Terminal Moraine, the highest ridge in Northern Indiana, which acts as the watershed between the Great Lakes-St. Lawrence and the Mississippi drainage system. From College Hill, a knoll rising to an elevation of about 790 feet above sea level at the southeastern edge of the city, where the University buildings are grouped, the view to the south, in the direction of the Kankakee River and its famous marshes, is especially beautiful. Sager's Lake, which lies in this direction, is a particularly favored spot. Toward the north, the Sand Dunes are of unusual interest as natural formations of great geologic, biologic, and scenic interest.

Very unusual opportunities are offered to students of Geology, Botany, and Zoology in the natural laboratories provided by the desert conditions of the dunes, and by the abundance of water and aquatic plants and animals in the intermorainal and interdunal pockets on either

side of the main ridge. Furthermore, the nearness of the Calumet industrial region and the exceptionally central location of the University with respect to Chicago, Detroit, and Indianapolis, make this an especially favored school from the standpoint of the applied sciences, both physical and social, as well as from that of the commercial studies. Inspection trips, for instance, to the Field Museum of Chicago, to the Steel Mills of Gary, and to the Dunes State Park, form a regular part of the course of study in the several departments.

From a residential point of view, Valparaiso offers many advantages lacking in the great cities: abundance of pure air, broad shaded streets, and open country within a fifteen minutes' walk from the business district. As a place for the training of youth, Valparaiso offers advantages superior in many respects to those of the big city, removed as it is from many disturbing influences.

HISTORY AND GOVERNMENT

The origin of Valparaiso University dates back to the days before the Civil War when, on the 21st of September, 1859, the Valparaiso Male and Female College, a Methodist school, opened its doors with seventy-five students and a faculty of six members. Housed at first in a temporary building where Music Hall now stands, the school prospered so well that the following year a substantial brick building, the historic Old College Building, was erected. The outbreak of the Civil War resulted disastrously for the new institution. Loss of students and financial distress finally caused the college to suspend classes in 1869.

On September 16, 1873, however, Henry Baker Brown, a professor of Mathematics, reopened the old college, under the name of the Northern Indiana Normal School and Business Institute, with five teachers and thirty-five students. Mr. Brown possessed qualities of organization and leadership that quickly brought success to his venture. In 1881 Mr. Brown was joined by Mr. Oliver Perry Kinsey, who became Vice-President of the institution.

In 1900 the name of the school was changed to Valparaiso College and in 1907 to Valparaiso University. President Brown and Mr. Kinsey had planned to turn the institution over to a self-perpetuating board of trustees. But these plans did not immediately mature. Mr. Brown's death intervened on September 16, 1917. Two years later, in May, 1919, Mr. Kinsey retired to a well-earned rest at the age of seventy.

In the fall of 1925 the Lutheran University Association, an Indiana corporation, was persuaded to take over and to continue the University. This Association now controls the physical plant of the University and manages the endowment. From its membership are chosen the officers of the Valparaiso University Association, which directs the University as its governing body.

BUILDINGS AND EQUIPMENT

The University occupies a number of commodious buildings, grouped in the neighborhood of University Place.

The Auditorium is on the west side of College Avenue. The ground floor contains the office of the registrar, several classrooms, and some departmental offices. The second floor has a splendid auditorium with a seating capacity of about fifteen hundred.

Music Hall, a three-story building, is directly opposite the Auditorium. It contains the University administrative offices, a number of studios, harmony and recital halls, and many private practice rooms.

Science Hall faces north and is opposite the Auditorium on University Place. The ground floor contains the physics laboratory and work shop, a large chemical laboratory, and the general stock room. The first floor contains the lecture rooms for physics and chemistry, the analytical laboratory, weighing room, offices for the chemistry and physics departments, and a research laboratory. The second floor houses the College of Pharmacy with its offices, a large pharmacy and dispensing laboratory, a pharmacognosy laboratory, and several lecture rooms.

Immediately west of Science Hall is the Biology Building, containing a number of class rooms and three well-equipped laboratories for botany, geology, and zoology.

The University Library is housed in a building north of the Auditorium, on College Avenue. It contains 15,408 volumes of books, 6,665 pamphlets, and subscribes for approximately 150 periodicals.

Commerce Hall, a modern building, is north of the Library, at the intersection of College Avenue and Freeman Street. This building houses the Department of Home Economics on the ground floor, the School of Law with its library on the first floor, and several departments of the College of Liberal Arts on the second and third floors.

The Engineering Building is used exclusively for Civil, Electrical, and Mechanical Engineering and for Industrial Arts. There are extensive machine shops, electrical laboratories, wood working shops, drafting rooms, testing laboratories, foundries, a modern power plant, etc.

The erection of a Physical Education building is contemplated for the current year. Plans and specifications are now being prepared. Meanwhile, adequate arrangements have been made with the Public School authorities for the use of their new and commodious High School Gymnasium. Brown Field is well equipped for outdoor athletics. Its new tennis courts deserve special mention. The field is located near the University, on a tract of land which is reserved for additions to the present university plant.

Grounds, buildings, and equipment are appraised at more than \$900,000 by the American Appraisal Company.

WHAT IT COSTS TO ATTEND VALPARAISO

GENERAL FEES AND EXPENSES

The total expense (Fees, board, and room) to a student, exclusive of railroad fare, clothing, and personal expenses, need not exceed \$250 for each semester.

The fees for the year, exclusive of laboratory fees, amount to \$202.00, distributed as follows:

Tuition	\$175.00
Health	3.00
Library	5.00
Lecture and Concert.....	1.00
Athletic	10.00
The Record	5.00
The Torch	3.00
	<hr/>
	\$202.00

(For laboratory, music, and other academic fees see information given under the respective departments and courses.)

Upon completion of the Physical Education building a gymnasium fee of \$2.50 each semester or \$5.00 for the year will be required.

For the second semester the student enrolled during the first will pay of the above only the tuition fee.

Tuition fee—The total for a semester is \$87.50; for the year \$175.00. The tuition for each semester is payable strictly in advance. Part-time students registering for 9 credit hours or less pay \$6.00 per credit hour and full fees. Students registering for 5 credit hours or less, pay the library fee in addition to the tuition charge of \$6.00 per credit hour.

Auditor's fee—\$6.00 per credit hour.

Health fee—The full health fee is charged all students except those who reside with their parents and are under the care of their own family physician. This fee provides for required physical examination and for attention from the University physician during his office hours.

Resident students pay a fee of \$1.00 to cover the required physical examination.

Gymnasium fee—This fee permits the student to enjoy the privileges of the gymnasium during open periods.

Library fee—The Library fee admits the student to the Library.

Athletic fee—Besides providing, in part, for the University's program of intercollegiate athletics, this fee admits to all intercollegiate contests during the year.

Fees for "The Record" and "The Torch"—In return for these fees the student receives the University annual and the University weekly newspaper.

Refund of fees—In case of formal withdrawal, the tuition fee is refundable as follows: Two-thirds until two weeks and one-third until ten weeks after the opening of a semester.

Health, library, gymnasium, athletic, The Record, Torch, and laboratory fees are not refundable.

Refunds must be claimed within six months of the close of the semester. Unclaimed amounts are turned over to the University's Student Loan Fund.

Adjustment of any accounts due at the Business Office must be made prior to final examinations. Applications for extensions must be made by parents or guardians.

SPECIAL FEES

Matriculation—\$5.00. This fee is payable once only, when the student is admitted to the University, and is not returnable.

Late Registration—\$1.00 for first day after registration and fifty cents per day additional thereafter until the close of the second week.

Condition Examination.—\$3.00.

Make-up or Special Examination.—\$1.00.

Change in Program.—\$1.00, unless the change is required by the University. See change in program under Admission.

Graduation—\$10.00; payable at the beginning of the final semester.

ROOMS

Rooms for men and women may be had at rates ranging from \$35.00 to \$55.00 per semester.

BOARD

Excellent board may be had at the University Commons for \$100.00 per semester or \$6.00 per week. Students remaining at the University during the holiday vacations will be charged a proportionate amount for table service during these periods.

VALPARAISO UNIVERSITY ASSOCIATION, PAYEE

Checks and money orders should be made payable to the Valparaiso University Association.

CARE OF STUDENTS

Routine of Matriculation and Registration—Upon reaching Valparaiso students should come direct to the Administrative Offices of the University. Here all the necessary information will be supplied respecting registration, rooms, and board. Students should not contract for rooms before consulting the University authorities.

Living Accommodations—The men's dormitory is Lembke Hall. It is a spacious structure with two wings, North and South Lembke, and is set aside principally for freshmen students. Other college men may also elect to live there. Its accommodations include parlor, clubrooms, some rooms for single students, and a large number of two-room suites for two students. The rooms are furnished, with the exception of curtains, towels, and bedding. All non-resident freshmen are required to reside in Lembke Hall.

Besides Lembke Hall, additional quarters for men may be secured in houses near the University, provided they are on the approved list which is kept on file in the office of the Dean of Students.

Altruria Hall is the dormitory for women. It contains a spacious reception hall where women students may gather for social affairs. Most rooms accommodate two girls; some rooms are single. The rooms are furnished, with the exception of curtains, towels, and bedding. Non-resident women students are required to live at Altruria Hall.

No deviation from rules can be permitted except after a thorough investigation by the Dean of Students, to whom written application must be made with a full statement of the circumstances.

Both Lembke and Altruria Halls, as well as all rooming houses, are under the care of matrons or house mothers who reside in them.

Occupants of the University's dormitories are required to furnish blankets, sheets, pillow cases, towels, floor coverings, and curtains.

University women and men in their freshmen year who cannot be accommodated in their respective halls will be assigned to other rooms until space becomes available in the halls.

The University has no facilities at the present time for the accommodation of colored students.

University Commons—The University Commons are located in Altruria Hall and are able to provide meals for a large number of students. All non-resident freshmen are required to eat at the commons. Meals are supervised by the Head of the Department of Home Economics as consulting dietitian.

Medical Supervision—The University assumes, so far as possible, the responsibility of safeguarding the health of students. It encourages them to maintain a high degree of physical fitness. All non-resident students are free to consult the University physician during his daily office hours without extra charge.

Religious Activity—The principal concern of the Dean of Students is the spiritual welfare of the students at the University. Chapel exercises are conducted daily during the regular scholastic year. It is the aim of the chapel period to cultivate and strengthen the student's spiritual life. All students are encouraged to participate in these services.

The Department of Religion and Philosophy offers basic courses in the Christian religion, for which regular college credit is given. A minimum of three credits in Religion is required toward a degree in the College of Liberal Arts. The Department also trains the students for service in various church activities.

The University Chapter of the Walther League, an international organization of Lutheran young people, engages the interests of a large number of students in its varied program of religious work. This society is the most general religious organization at the University. Meetings are held every Sunday afternoon at 4:30 o'clock. The program of this Fireside Hour is in charge of the members of the University Chapter. Outside speakers, however, are invited from time to time.

On Sundays the students are expected to attend the church and Sunday school of their choice. Every courtesy is extended to city pastors to enable them to remain in touch with their respective students.

Student Conduct—Matters of conduct are in the hands of the Dean of Students. Close supervision of all social activities is maintained by his office. Faculty members, as selected jointly by the Dean of Students and student organizations, assist the Dean in the supervision of every social function at the University.

The Advisory System—It is the aim of the Administration to remain in close touch with each student. Hence, each student is given a provisional faculty adviser at the time of his admission. As soon as he has selected his major study, he is assigned to the adviser in the department of his major study.

Each adviser aims to know personally every student in his division. He tries to note the special abilities of each student and on the basis of such observation guides him in the arrangement of his schedule so that he may choose the right field of concentration and subsequently meet all the requirements for graduation in the proper sequence. The adviser constantly encourages the student to strive for excellence and high standards of performance.

The advisers meet with the Dean of the University at stated intervals and make reports to him every six weeks.

HEALTH AND PHYSICAL EDUCATION

Every student, upon entering, receives a physical examination which forms the basis for special advice and for prescribed work where this is needed.

Athletic sports and exercises for men are encouraged as a part of the University's program of physical education. The University is a member of the Indiana Intercollegiate Conference and fosters both intercollegiate and intramural athletics.

Brown Field also provides facilities for outdoor sports for women, including field hockey, tennis, archery, and baseball.

Under the direction of the Department of Health and Physical Education the Women's Athletic Association arranges for tournaments and is custodian of all equipment, such as hockey sticks, tennis nets, basketballs, bats and balls. Numerals and chevrons are awarded for proficiency in sports. Every woman student is a member of the Association.

LITERARY AND MUSICAL ADVANTAGES

Lectures and Concerts—An important feature of the work at Valparaiso is the course of lectures by invited speakers. They are delivered before the students of all departments. Concerts and recitals by prominent musicians assist in the cultivation of a high musical standard.

Musical Organizations—The size of the student body makes possible an excellent variety of chorus work. The University choir provides opportunity for the singing of sacred music a cappella. The University Chorus gives splendid drill in the study and rendition of masterpieces. The Orchestra and Band have also made a good record for themselves in the life of the school and of the community. All of these organizations are under the direct supervision of the instructors in Music.

Class Organizations—Each of the four student classes maintains a permanent organization, with officers and a treasury, for the management of the class affairs. It is expected that students will become members of these organizations and participate in the interests and normal activities of the class.

Honorary Societies—The honorary fraternities on the campus are Alpha Psi Omega (dramatics) and Sigma Delta Psi (Athletics). Others are being added.

These organizations are branches of national organizations with the same names. In each of them the membership is made up of junior and senior students who have the same major interests, as indicated in the list above. The main objects of these fraternities are the promotion of high scholastic attainment and the stimulation of active professional interests. In most cases these members are elected on a basis of high scholarship.

Literary and Scientific Societies—Departmental societies of the College of Liberal Arts as well as similar groups of the College of Pharmacy and the School of Law give an opportunity to present essays, orations, discussions, and criticisms. These societies include such as the Education Club, the English Club, Le Cercle Francaise, Der Goethe Verein, the Biology, Social Science, and Engineering Clubs, as well as the Pharmaceutical Association and the Lawyers' Union.

Debating—Debating has been organized to provide training and experience for a larger number of students. Sophomores as well as upper classmen are eligible for membership. The Forensic Union meets weekly for practice and instruction. Teams are selected from its members to represent the University in public debates. It is the policy of the Union to give every member an opportunity to appear in at least one public debate during the course of the year.

A Junior and Varsity intercollegiate debate schedule has been provided for. Debating is supervised by the section of Public Speaking in the Department of English Language and Literature. Academic credit is granted for the work.

The Dramatic Art Society—The Dramatic Art Society is composed of students who are actively interested in producing plays. It produces before its own members and occasionally before the public interesting examples of old and new standard plays. The Society seeks always to put emphasis upon literary and artistic values rather than to strive after the merely spectacular. It plays strictly in the amateur spirit and does not desire to imitate the professional theatre. Dramatics also are under the supervision of the Public Speaking section of the Department of English Language and Literature.

Student Publications—The weekly newspaper of the University, "The Torch," is edited by the students under the supervision of the Department of English Language and Literature. The paper serves the purpose of a laboratory for students in Journalism.

"The Taper" is the publication of the students in poetry who are organized as a section of the Indiana State Poetry League.

The yearbook, "The Record," is published by the Junior Class. It furnishes information on the faculty, classes, activities, and organizations of the year.

PART III
ADMINISTRATIVE PROCEDURE

ADMISSION

The Academic Year—The College of Liberal Arts has both a long session and a summer session. The College of Pharmacy and the School of Law have only a long session. The long session includes two semesters; the first, beginning September 18th and ending February 7th; the second, beginning February 9th and ending June 13th.

ADMISSION TO THE FRESHMAN CLASS

General Entrance Requirements—Students with acceptable scholastic records from accredited high schools and satisfactory recommendations will be admitted as freshmen:

- (a) If they present fifteen suitable units earned in grades IX, X, XI, XII.
- (b) If they present twelve suitable units earned in grades X, XI, and XII.

Graduates of accredited high schools who have not included in their high school courses the specified amount of work in the prescribed entrance subjects will be admitted under certain circumstances as conditioned students. The deficiency must be removed within twelve months from the date of admission.

Accredited High Schools—The University accepts as its list of accredited high schools the lists prepared by the high school inspectors of the various States, and those approved by the North Central Association or by accrediting associations of the same standing. Graduates of non-accredited high schools should communicate with the registrar who will present their application to the Committee on Admissions. Students are admitted from such schools only on condition that their work proves satisfactory.

Definition of Unit—One unit represents the completion of a year's work in a given subject, with daily recitations of not less than 45 minutes each, for a school session of at least 36 weeks.

Required Entrance Units—The high school transcript must show a minimum of fifteen units of work, distributed as follows, with exceptions as noted:

1. English

- (a) *Composition 1 Unit
- (b) Elementary Rhetoric 1 Unit
- (c) American or English Literature or both..... 1 Unit

2. Mathematics†

- (a) *Algebra 1 Unit
 - (b) Plane Geometry 1 Unit
- (Two units in unified mathematics may be substituted.)

*These subjects may be taken in Junior High School, but do not reduce the requirements of twelve units for Senior High School students.

†For admission to Engineering, freshmen must produce $\frac{1}{2}$ unit additional in algebra, also $\frac{1}{2}$ unit additional in solid geometry.

3. Two elective groups, each of not less than 2 units to be selected from:
 - (a) *One foreign Language—French, German, Spanish, Latin or Greek.
 - (b) Social Studies, including History or Bible.
 - (c) Natural Science.
 - (d) Practical and Fine Arts. Not more than four units.
4. Electives, to make a total of:
 - (a) Fifteen units for regular four year high school students.
 - (b) Twelve units for three year students from Senior High Schools.

FOREIGN STUDENTS

Students from approved schools in foreign countries will be admitted under the same general conditions as those from American schools, provided they have a sufficient working knowledge of English to enable them successfully to carry regular work.

SPECIAL STUDENTS

Persons are admitted as special students under the following conditions: (1) They must be prepared to do the work desired, and give good reason for not taking the regular course; (2) They must be at least twenty-one years of age.

Special students are not admitted to the School of Law.

ADMISSION TO ADVANCED STANDING

Estimates of advanced standing will be made only when official transcripts of studies pursued are presented. Arrangements must be made with the Registrar for any advanced credit. Any advanced standing granted is provisional; it is conditioned upon the ability of the candidate to pursue the advanced courses which he enters. The student must show by his transcript that he is entitled to an honorable dismissal.

REGISTRATION

Registration Days—For the long session of 1930-31 the registration days are as follows:

First semester: Wednesday, September 17th, for the registration of freshmen; Thursday, September 18th, for the registration of all other students.

Second semester: Monday, February 9th.

Control Over Admission—Admission to the University is under the control of the registrar.

Method of Admission—An application blank may be secured by addressing the registrar. This should be filled out and forwarded to the registrar of the University who will then tell the student what to do. A student's credentials must be approved by the registrar before his registration is complete. High School certificates and other credentials should be filed as early as possible. All certificates upon which admission is

*These subjects may be taken in Junior High School, but do not reduce the requirements of twelve units for Senior High School students.

granted become the property of the University and are preserved in its permanent files.

Late Registration—The student must pay an additional fee for late registration. No student will be allowed to enter for credit after 12:00 M. Saturday, October 4th in the first semester, or 12:00 M., Saturday, February 21st in the second semester.

Responsibility of Students Upon Registration—In registering, the student subscribes to the terms and conditions, financial and otherwise, as set forth in these announcements.

Change in Program—For changes in the student's program two weeks after the regular registration days, a fee of one dollar will be charged for each subject changed, unless the change is required by the University. Changes will be made only when approved by the student's adviser. In no case, except for prolonged illness, will a student be allowed to change his program of studies or withdraw from a course without a grade of F, after the end of the sixth week of the semester.

Attendance on Courses as Visitors—Attendance by a registered student as a visitor in a course for which he is not registered is allowed only with the approval of his adviser.

Transfer—If a student transfers from one program of study to another, as for instance, from Pharmacy to Law or from Engineering to Education, all requirements of the new specialization must be met. Such a transfer will subject credits previously earned to a re-evaluation. In certain cases the change of program may result in some loss of credit. Such transfers should, therefore, not be made without the written approval of the advisers concerned.

WITHDRAWAL

Withdrawal—A student who wishes to withdraw from the University for the remainder of a session should apply to the registrar for the mode of procedure. Upon presentation of the permit, the registrar will issue an order for the return of such fees as are refundable. In every case the parent or guardian is notified of the withdrawal by the Dean of Students.

The term "honorable dismissal" refers to conduct and character only, not to class standing and grades. It will not be granted unless the student's conduct and character are such as would entitle him to continue in the University.

On withdrawal every student is entitled to a transcript which contains all the important facts pertaining to his admission, classification, and scholarship.

FRESHMAN WEEK

The purpose of freshman week is educational guidance and orientation for college life.

All members of the incoming freshman class are required to be in residence in Valparaiso two days before the return of the upper classmen. The period prior to recitations is known as freshman week. During this time the freshmen will be divided into groups, under faculty advisers who will aid them in every way possible to become adjusted to their new environment. On the first day there will be lectures on University curri-

cula, regulations, and customs. Various tests and a physical examination will also be given in order that the University may obtain accurate information concerning the type of mental qualification as well as degree of health of every student. The second day will be devoted to freshman registration, each student being assisted in the selection of his course of study by his faculty adviser. A full program of the activities of freshman week will be sent to each freshman before he comes to the University.

EXAMINATIONS AND STANDING

Regular Examinations—The regular written examinations of the University are held at the close of each semester. Each examination is usually limited to three hours.

In addition to the regular prescribed examinations, written tests are given from time to time, at the discretion of the instructors.

The semester examinations are conducted according to a published schedule.

Special Examinations—Special examinations are given only to conditioned (grade E) students and to students who for adequate reasons have not been able to be present at regular examinations or written tests. The privilege of special examination is granted by the adviser on recommendation of the instructor. A condition grade of E must be removed by special examination during the next academic year. If not so removed, the grade E becomes a grade F (failure) and the Registrar is authorized to make the change on the student's permanent record. In no case may a student remove a grade F by special examination. The subject must be repeated for credit.

The student is charged a fee of one dollar for each special examination or written test. This fee must be assessed by the Registrar and paid to the business office before the examination can be given by the instructor.

STANDING OF STUDENTS

Marking System—Results of work will be recorded in the registrar's office as follows:

A. Exceptionally high quality, valued at three (3) quality points for each credit.

B. Good, valued at two (2) quality points for each credit.

C. Fair, valued at one (1) quality point for each credit.

D. Unsatisfactory; indicates a deficiency and gives no quality points, but gives credit for graduation if with such credits the student's standing is one (1) or more.

E. Condition grade. Requires special examination for its removal; otherwise it becomes an F automatically.

F. Failure, valued at 0 credits and 0 quality points.

I. Incomplete: Indicates satisfactory work, some part of which is incomplete; must be removed during the first semester in which a student attends school after securing the I; otherwise it becomes an F automatically.

W. An authorized withdrawal.

Any student withdrawing from a subject without first securing the official permission of his adviser will receive a grade of F in that subject for the semester.

Definition of the Standing of a Student—A student's standing is determined by the ratio of his total number of quality points to his total number of credits. Thus, a student who makes an average mark of C throughout his course of 124 semester hours will have 124 quality points and 124 credits, and a standing of one. An average mark of B will give the student 248 quality points and 124 credits and a standing of two. When a semester's work is to be considered, "standing" is understood to be the ratio of the number of quality points gained to the number of credits scheduled.

Passing Grade. Any student who does not maintain a passing grade in at least three three-hour courses or the equivalent will be requested to withdraw from the University. In the case of a freshman this rule may be waived by the committee on scholarship upon the recommendation of the adviser.

AMOUNT OF WORK

Credit Hour—A credit represents one hour of recitation or lecture, or two or more hours of laboratory a week for one semester. If time outside of the laboratory is required to prepare laboratory notes, two hours may be equivalent to one hour of class work. Drawing, shopwork, physical education, and other courses demanding no outside preparation require a minimum of three hours for one credit. For the exact number of hours see the respective courses.

Amount of Credit per Semester—The average amount of work regularly required of each student is fifteen hours a week, exclusive of physical education.

No regular student may register for less than twelve, nor more than eighteen hours, exclusive of physical education. No student of a college of this University, except he be a student in Engineering or Pre-Medicine, may register for more than sixteen or for less than fourteen hours, unless by special permission of the Committee on Scholarship. This permission will be granted only on written application before registration is completed. To be eligible to carry extra work, the student must have a standing of at least two for the preceding semester. Freshmen will not be allowed to carry extra work. If additional work is taken with the consent of the Committee on Scholarship, it must be dropped, whenever the student's work proves unsatisfactory. A standing of 1.5 is to be maintained by the student in all subjects, or sixteen credits only will be granted, no matter how many hours are passed in class.

Number of credit hours students may take each semester without petition—

College of Liberal Arts:

In all departments except Engineering and
Pre-Medicine Maximum, 16 credits

In Civil, Electrical, Mechanical Engineering, and
Pre-Medicine Maximum, 18 credits

College of Pharmacy..... Maximum, 17 credits

School of Law..... Maximum, 14 credits

GRADE REPORTS

Semester Reports from the Registrar—Reports are sent to parents and guardians of all students in the University at the end of each semester. Self-supporting students over twenty-one years of age may receive their reports instead of their parents, if they so request in writing.

Intra-semester Reports from the Adviser—On November 3d, December 15th, March 23d, and May 4th, the instructors report to the Registrar all students whose grades fall below C. The Registrar reports such students to their advisers in order that they may hold a special conference with the students concerned.

CLASSIFICATION OF STUDENTS

A student is classified according to the number of credits and quality points earned toward the degree. The following credits and quality points are needed for classification of students:

Admission to freshman class: 15 suitable entrance units.

Admission to sophomore class for all departments except Engineering: At least 24 credits and 18 quality points, or registration in courses amounting to 54 credits at the end of the academic year.

For the Department of Engineering: At least 27 credits and 20 quality points, or registration in courses amounting to 61 credits at the end of the academic year.

Admission to junior class for all departments except Engineering: At least 54 credits and 50 quality points, or registration in courses amounting to 88 credits at the end of the academic year.

For the Department of Engineering: At least 61 credits and 56 quality points, or registration in courses amounting to 99 credits at the end of the academic year.

Admission to senior class for all departments except Engineering: At least 88 credits and 88 quality points and registration in courses amounting to 124 credits at the end of the academic year.

For the Department of Engineering: At least 99 credits and 99 quality points and registration in courses amounting to 140 credits at the end of the academic year.

GRADUATION

Degrees—Upon the recommendation of the faculty of the College of Liberal Arts the University confers the degree of Bachelor of Arts, Bachelor of Science in Engineering, and Bachelor of Music. Upon recommendation of the faculty of the College of Pharmacy the University confers the degree of Pharmaceutical Chemist and the degree of Bachelor of Science in Pharmacy. Upon recommendation of the faculty of the School of Law the University confers the degree of Bachelor of Law. In all cases the student is responsible for meeting the requirements for graduation.

General Requirements for Degrees—1. The minimum number of credits and quality points required for graduation varies with the courses chosen, as shown in the following summary. Candidates for degrees must

meet the requirements both in number and kind of credits, as outlined in the catalog for the year of matriculation, or for the year of graduation, except that students who withdraw from the University for one semester or longer, will be graduated under the requirements of the years in which they re-enter.

Degrees	Credits Required	Quality Points Required
<i>Bachelor of Arts</i>		
In all departments.....	124	124
<i>Bachelor of Science in Engineering</i>		
Civil Engineering	138	138
Electrical Engineering	140	140
Mechanical Engineering	138	138
<i>Bachelor of Music</i>	124	124
<i>Pharmaceutical Chemist</i>	96	96
<i>Bachelor of Science in Pharmacy</i>	132	132
<i>Bachelor of Laws</i>	78	78

2. All work toward a degree must have been completed to the satisfaction of the faculty recommending the degree.

3. Candidates for degrees must spend, except as noted elsewhere, at least the last year of work required for a degree in residence.

The last year of work is to be construed as a year of not less than thirty semester hours of credit in the College of Liberal Arts and Pharmacy, and twenty-four semester hours of credit in the School of Law.

4. Candidates for graduation must make formal application when registering for their last semester's work. The graduation fee must accompany the application.

5. A candidate must be present at Commencement in order to receive his degree. Degrees are not conferred *in absentia*, except on special permission from the President on recommendation of the Dean of the University.

6. A student who completes his work toward a degree in the Summer Session may be granted his degree at the end of that session.

7. Four summer sessions amounting to forty weeks will be considered equivalent to one year of residence.

Degrees With Distinction—Two grades of honors are conferred upon candidates at graduation:

1. Students who attain to a standing of 2.6 up to 3 are graduated "*With High Distinction*," They must have been in attendance at least three years.

2. Students who attain to a standing of 2.4 up to 2.6 are graduated "*With Distinction*."

A student who has been in attendance only for his last two years may also receive these honors, provided he attains to a standing of .2 greater than the above named.

Class Honors in Scholarship—The requirements for class honors in scholarship are as follows:

1. The student must have removed all conditions.

2. He must have been registered for at least fourteen hours of work per semester, exclusive of physical education.

3. For freshmen honors the student must secure an average of 2 points per credit hour; for sophomore honors, an average of 2.3 points; for junior honors, an average of 2.4 points; for senior honors, an average of 2.5 points.

Freshmen reaching the required standard of excellence receive *Honorable Mention*; sophomores, juniors, and seniors are recognized as *Sophomore, Junior, and Senior Scholars*, respectively. Senior honors are awarded at commencement; freshmen, sophomore, and junior honors at an honor assembly which is held in the fall.

BUREAU OF RECOMMENDATIONS

The University maintains a Bureau of Recommendations, primarily for the purpose of assisting capable teachers in securing desirable positions and also of cooperating with school officials in engaging competent teachers. A fee of \$1.00 is required for registration and a commission of twenty-five dollars is charged each person who is placed by the bureau. Communications with reference to teachers and positions should be addressed to the Director of the Bureau of Recommendations, Valparaiso University, Valparaiso, Indiana.

RESERVATION OF RIGHT TO AMEND RULES AND REGULATIONS

The University reserves the right to amend its rules and regulations within the limits of commonly accepted administrative and academic principles of recognized colleges and universities.

PART IV

THE COLLEGE OF LIBERAL ARTS

*Accredited by the North Central Association of Colleges
and Secondary Schools*

*Approved by the Indiana State Board of Education
as a Class "A" Standard College for
Teacher Training*

*Approved by the American Medical Association
for Pre-Medical Education*

DEGREES OFFERED IN THE COLLEGE OF LIBERAL ARTS

The following degrees are offered in the College of Liberal Arts: The degree of Bachelor of Arts in all departments except Engineering, the degree of Bachelor of Science in the Department of Engineering, and the degree of Bachelor of Music in the Department of Fine Arts.

Majors leading to the degree of Bachelor of Arts may be taken in the following departments: Biology; Business Management and Economics; Chemistry; Education and Psychology; Engineering (In Industrial Arts only); English Language and Literature; Fine Arts (Art and Music); Foreign Languages and Literatures (French, German, Latin, and Spanish); Health and Physical Education; Home Economics; Mathematics and Physics; Religion and Philosophy; Social Science (History, Political Science, and Sociology).

Majors leading to the degree of Bachelor of Science may be taken in Civil, Electrical, Mechanical and Industrial Engineering, and in Industrial Arts.

Majors leading to the degree of Bachelor of Music may be taken in Organ, Piano, Violin, Voice, and Theory and Composition.

General Requirements—Physical Education is required in the freshman and sophomore toward above degrees.

THE BACHELOR OF ARTS CURRICULUM

Essential features—The courses of study of the Bachelor of Arts curriculum provide a *general culture* unit and a *specialization* unit, that is, (1) in the freshman year orientation courses of fundamental educational value which build upon the high school curriculum, and (2) in the sophomore year introductory or survey courses, in varied fields or major avenues of service, as preliminary and prerequisite to specialization, and (3) in the junior and senior years the rather definite specialization in the narrower field of the student's primary and secondary interests. Hence the programs of study are divided into lower and upper divisions or into junior and senior college curricula.

I. THE JUNIOR COLLEGE CURRICULUM

A. Freshman Year

This outline of the junior college curriculum does not apply to Pre-Medical students or to students in Engineering.

Required Subjects, or the Constant, of the Freshman Year

	Sem. I	Sem. II
Freshman Composition	3 cr.	3 cr.
*Survey course in Social Science.....	3 cr.	3 cr.
*Survey course in Natural Science.....	3 cr.	3 cr.
*Freshman Lectures (The Psychology of Thinking and Studying, 1 credit; The Use of the Library, 1 credit) ..	1 cr.	1 cr.
Foreign Language	3 cr.	3 cr.
†Religion or Music Appreciation (a survey course).....	2 cr.	
†Religion or Art Appreciation (a survey course).....		2 cr.
Personal Hygiene (each semester, 1 credit).....	1 cr.	1 cr.
Physical Education (each semester, 3 hours).....	0 cr.	0 cr.

*As a rule these courses are limited to freshmen and are not required of students entering after the freshman year. Such students must, however, substitute for the orientation courses 6 credits in Social Science, 6 credits in Natural Science and at least 3 credits in Fine Arts, or Philosophy, or Psychology, or Religion.

†Or electives for students in Music, Art, and Business Management.

B. SOPHOMORE YEAR

1. *Required Subjects, or the Constant, of the Sophomore Year.*

	Sem. I	Sem. II
Fundamentals of Speaking or The Bible and Civilization...	1 cr.	1 cr.
Types of Literature.....	0-2 cr.	0-2 cr.
Physical Education	0 cr.	0 cr.

2. *Required Prerequisites to Major and Minor Subjects.* (Introductory courses or preliminary specialization.)

	Sem. I	Sem. II
Foreign Languages and Literatures, if elected for a major or minor	3 cr.	3 cr.
Social Science, if elected for a major or minor.....	3-6 cr.	3-6 cr.
Art, Literature, Mathematics, Music, Philosophy, Psychology, Religion, if elected for a major or minor.....	3-6 cr.	3-6 cr.
Natural Science, if elected for a major or minor.....	4-10 cr.	4-10 cr.

3. *Enough electives in Sophomore or B Courses to make up a total of at least 60 credits by the close of the Sophomore Year.*

Foreign Language Requirements—Every student is required to complete, in freshman and sophomore years, 6 to 18 credits: 6 credits in the language pursued in high school, if 3 or more units of entrance or its equivalent are presented; 12 credits, if only 2 units of entrance are presented; 18 credits, the completion of 6 of which may be postponed to the junior year, if only 1 or no unit of entrance is presented.

No credit toward graduation will be granted for less than a full year's work in a beginning language. Neither can the language requirement be met by offering two different languages.

Social Science Requirements—6 credits in Economics, History, Political Science, or Sociology are required; 12 credits, including 6 credits in History, if no entrance unit in History is presented. In addition, three credits in Religion or Ethics are required.

Natural Science Requirements—8 credits are required in one of the following subjects: Botany, Chemistry, Geology, Physics, or Zoology.

Postponement of Sophomore Credits—The subjects named above must be completed before the beginning of the junior year, except that a sophomore student of Fine Arts, with the permission of his adviser, may postpone six credit hours of History or Psychology to the junior year; any other sophomore student, with the permission of his adviser and the Committee on Scholarship, may defer not more than six credits of prescribed work to the junior year, provided this work does not conflict with prerequisites to a double major. Three credits in Religion may in addition be so postponed.

II. THE SENIOR COLLEGE CURRICULUM

(Junior and Senior Years)

1. *Major Subject*—Each student selects some one subject of study as his major not later than the beginning of his sophomore year. In his major department he completes courses totaling not fewer than 24 credits,

or more than 48 credits, all but ten of which must be courses marked C or D (courses not open to freshmen and sophomores). In the departmental statements under Courses of Instruction the specific requirements for a major and minor are outlined. Likewise, the approved related minors from which each student elects are there published.

2. *Minor Subject*—If a student does not choose a major of 48 credits, he may select from one or two approved related departments courses totaling not fewer than 12 nor more than 24 credits, of which at least 6 and 14 respectively must be courses marked C or D.

3. *Choice in Major or Minor Subjects*—Group work in the field of specialization may consist of a major of 48 credits; one major of 24 and a second major of 24 credits; a major of 36 and a minor of 12 credits; and a major of 24 and two minors of 12 credits each.

4. *Credits of C and D courses in Major and Minor Subjects*—At least a total of 40 credits of C and D courses are to be offered for graduation. Only sophomore credits of introductory courses may apply as prerequisites to major and minor subjects.

5. *Electives*—In addition to the work required above, sufficient electives are chosen to make a total of 124 credits in order to obtain the degree of Bachelor of Arts.

No credit is allowed for certain subjects unless pursued throughout the year, as announced. For example, in order to secure any credit in a beginning course in foreign language, a full year's work must be completed.

Electives may be taken in any department of the College of Liberal Arts during junior and senior years. These electives may include certain courses in Art, Business Management, Education, Engineering, Home Economics, Industrial Arts, and Music. The total of elective credits allowed in Engineering courses may not exceed 24 hours. Credit to the extent of three hours is allowed for applied music (Piano, Voice, etc.) after Music 5 (Harmony) has been completed. For every additional hour of applied music the student must elect an equal number of hours of theoretical music. The total amount of credit in music may not exceed 12 hours.

6. *Bachelor's Thesis*—A bachelor's thesis is not generally required. Students of high standing, however, are encouraged to write theses in connection with their major studies. Credit toward the degree is given for thesis work only as part of the work in a thesis course for which the student is registered, and when such thesis is presented in prescribed form and duly approved by the head of the department in which it is written.

7. The schedule of courses of juniors and seniors must have the written approval of the adviser under whose guidance the student is doing his major work. Not only the grouped work, but also all electives are chosen with the advice and approval of the major professor.

The Department of Biology acts as adviser—for *pre-dental*, *pre-medical*, and *pre-nursing* students; the Departments of Business Management, English Language and Literature, and Social Science, for *pre-law*

students; the Department of English Language and Literature, for students preparing for work in *library* and *journalism*.

PRE-PROFESSIONAL PROGRAMS

The entrance requirements to these courses are those of the College of Liberal Arts. The college requirements consist of 60 credits and 60 quality points.

Pre-Legal Program—Two years of work in the College of Liberal Arts of this University or of an approved college are necessary for admission to the School of Law. (See Part VI.) Students who take these preliminary years in this University are to conform to the regular requirements for freshmen and sophomores and to take such additional courses as may be suggested by the Department of Social Science.

Pre-Medical Program—A two-year course preparing for the study of medicine is offered under the direction of the Department of Biology. This course follows the requirements of the American Medical Association and the Association of American Medical Colleges for entrance to all class A medical schools, except those requiring a degree for entrance.

Valparaiso is on the list of "Approved Colleges of Arts and Sciences compiled by the Council on Medical Education and Hospitals of the American Medical Association."

Preparation for Dentistry and Nursing—For preliminary requirements see under the Department of Biology.

COMBINED PROGRAMS

Liberal Arts-Professional Courses—Students may do the entire work of their senior year in the School of Law of this University, or elsewhere in approved schools of *medicine* or *journalism* and receive the degree of Bachelor of Arts from this University under the following conditions:

(1) The junior year is to be completed in the College of Liberal Arts at this University. (2) The program selected and the school in which the work is to be completed must be recorded with the Registrar upon a blank furnished by him on or before December first. (3) All prescribed subjects in preparation for above schools, inclusive of any group requirements of this University, must be met before the student enters the professional school. (4) All requirements regarding the major subject are to be satisfied before the bachelor's degree is granted. (5) An application for graduation must be made and the usual graduation fee paid.

An official transcript of the year's work (30 semester hours or its equivalent), must be sent to the registrar at the close of the year. Upon receipt of such transcript the degree of Bachelor of Arts may be granted as if the work had been completed in residence in this University.

For the three-year program preparing for Law, see the Departments of Business Management, English Language and Literature, and Social Science; for the three-year program preparing for Medicine, see the Department of Biology; for the three-year program preparing for Chemical Engineering, see the Department of Chemistry; for the three-

year program preparing for Journalism, see the Department of English Language and Literature.

Six-Year Combined Liberal Arts-Law Program—A student may obtain in six years both the Bachelor of Arts and the Bachelor of Laws degrees. The program requires the completion of three full years of academic work in any department of the College of Liberal Arts, before the course in the School of Law is begun. For approved outlines of this Arts-Law program, see respectively the Departments of Business Management, English Language and Literature, and Social Science.

A student who has been in residence at this University for his junior year, and has been careful to confine himself to the prescribed subjects and group requirements during his three years in the College of Liberal Arts, and has secured 93 credits and 93 quality points may be given the degree of Bachelor of Arts upon passing the prescribed examinations for the entire first year law work. He may then complete the requirements for the degree of Bachelor of Laws by two years of additional work in the School of Law.

The entrance requirements for this program are those of the College of Liberal Arts. The A.B. degree is granted upon the joint recommendation of the faculties of the College of Liberal Arts and of the School of Law at the end of the first year of Law, the LL.B. upon the recommendation of the faculty of the School of Law at the end of the third year of Law.

Five-Year Combined Liberal Arts and Social Work Program—There is an increasing call today for the following forms of social service: Work of charity organizations and of associated charities; work in social settlements; work in community centers and in playgrounds; work in prisons, reformatories, and other punitive or corrective institutions; work in homes and institutions for the defective and dependent; work in probation and other courts; child welfare work; medical or educational social work; welfare work in industrial and mercantile establishments; work of civic organizations.

The University offers a curriculum in Social Science (see under the Department of Social Science) which leads, at the end of the fourth year, to the degree of Bachelor of Arts, conferred upon recommendation of the faculty of the College of Liberal Arts. The work of the fifth year is secured in an approved School of Social Work and leads, at the end of that year, to appropriate certificates in social work.

The entrance requirements for this program are the same as those for the College of Liberal Arts; the college requirements toward the degree of Bachelor of Arts are 124 credits and 124 quality points.

Preparation for Library Science—See the Department of English Language and Literature.

THE BACHELOR OF SCIENCE CURRICULUM

The degree of Bachelor of Science of the College of Liberal Arts is offered only in the Department of Engineering, with a major respectively in civil, electrical, mechanical, and industrial engineering.

The curriculum for the first year is uniform in all branches of engineering. The courses given during this time—Mathematics, Mechanics, General Inorganic Chemistry, and Engineering Drawing—are regarded as a common foundation for engineering. The specialization of the curriculum in the various divisions of Engineering is confined to the last three years.

Since the courses given in the various divisions of Engineering vary to some extent in the second year, and diverge more and more in later years, the student who wishes to transfer from one division to another should do so at the beginning of his second year.

For an outline of the different programs in Engineering, see the Department of Engineering.

THE BACHELOR OF MUSIC CURRICULUM

The degree of Bachelor of Music of the College of Liberal Arts is offered only in the Department of Fine Arts, with a major respectively in Organ, Piano, Violin (or other orchestral instruments), Voice, and Theory and Composition.

The freshmen courses, such as Sight-singing, Ear Training, and Harmony, are a foundation for all future music study. The sophomore courses are much the same in most of the curricula; specialization in Music may begin in this year.

At least thirty credits of the required 124 should be taken in cultural subjects during the freshman and sophomore years so that full time can be given to the chosen field of specialization in Music during the junior and senior years.

For an outline of the different programs in Music, see the Section of Music under the Department of Fine Arts.

CLASSIFICATION OF COURSES

To guide students in the proper sequence of subjects pursued in each department, courses are marked A, B, C, or D. The letter following the course number indicates, in general, its grade, as follows:

A—Such freshmen courses as are equivalent to work taken in high school. Seniors enrolled in these courses will receive only one-half credit; juniors only three-fourths credit.

B—More advanced courses: Open to freshmen and sophomores, requiring prerequisite high school courses in the same or similar subjects. Seniors enrolled in these courses will receive only three-fourths credit.

C—Courses requiring at least one year of college work in the same or kindred subjects, and regularly following after B courses.

D—Advanced courses: Requiring at least two years of prerequisite college training, regularly following after C courses. Only student classified as juniors or seniors may enroll in these courses.

Courses numbered from 1 to 50 are A courses, from 51 to 100 B courses, from 101 to 150 C courses, and from 151 to 199 D courses.

Yr. indicates a continuous course extending through two semesters. A final report will be made by the instructor at the end of each half year.

ORIENTATION COURSES

DEAN KROENCKE, *Adviser*

1-2. INTRODUCTION TO SOCIAL SCIENCE.—(A) Yr. Each semester. Cr. 3.

A cooperative survey course in social science, consisting of lectures, discussions, and recitations covering topics from the fields of economics, education, history, philosophy, political science, and sociology.

Kroencke, Bauer, Pinto, Skinner.

3-4. INTRODUCTION TO NATURAL SCIENCE.—(A) Yr. Each semester. Cr. 3.

A cooperative survey course in natural science, consisting of lectures, demonstrations, and recitations. Departments cooperating are: Botany, Chemistry, Geology, Mathematics, Physics, and Zoology. Some of the topics covered are: The nature of matter and energy, the nature of chemical processes, the plant kingdom, the animal kingdom, and structure and development of the human being.

Copp, Thomas, Fuller, Meyer, Kaufmann, Elliott.

5. FRESHMAN LECTURE I: THE PSYCHOLOGY OF THINKING AND STUDYING.—(A) Sem. 1. Cr. 1.

The chief topics discussed are: The processes of thinking, learning, studying, and note-taking. Other topics considered are: Collegiate life and work, the field of knowledge, and choosing a major.

Robinson.

6. FRESHMAN LECTURE II: USE OF THE LIBRARY.—(A) Sem. 2. Cr. 1.

This course gives instruction and practice, through assignments and reports, in the use of the card catalog, decimal classification, periodical indexes, and reference books. Some topics covered are: A rapid survey of bibliography, great books, and sources for borrowing books and pamphlet material.

Robinson.

7. SURVEY COURSE IN MUSIC APPRECIATION.—(A) Sem. 1. Cr. 2.

Such topics are considered as the message of music; the courteous listener; music memory; harmonic listening; rhythm; melody; harmony; the orchestra; program music; correlation of music with other subjects. Lectures cover such subjects as music of ancient cultured nations; piano and organ; opera and oratorio; Bach, Handel, Haydn, Mozart, Schubert, Mendelssohn, and Wagner; music in America. The course is supplemented by the use of suitable records.

Schweppe.

8. SURVEY COURSE IN ART APPRECIATION.—A. Sem. 2. Cr. 2.

A study of color, balance, line, composition; a rapid survey of the history of art from the beginning to the present day.

Anderson.

II DEPARTMENTS OF INSTRUCTION

THE DEPARTMENT OF BIOLOGY

The work in this department provides a means of obtaining both a general cultural and detailed special knowledge of plants and animals. The aim of the beginning courses is to furnish the basis for all advanced work and at the same time to develop an appreciation of animal and plant life. Succeeding courses establish the foundation for practical work in these and related branches, such as pharmacy, medicine, dentistry, teaching, and preparation for graduate and research work.

The location of the university in the lakes and dunes region of north-western Indiana makes available a great variety of native plants and animals characteristic of lakes and streams, sand dunes, open prairie, and forest. The nearness of Chicago affords opportunity for extended field observation and study at such places as the Field Museum of Natural History, the Shedd Aquarium, the Lincoln Park and Riverside Park Zoological gardens, and the Washington Park Botanical Garden.

Major: A major in Biology consists of at least twenty-five credit hours and must include Botany and Zoology 51 and 52 and Zoology 120. Zoology 115 is also recommended.

A. BOTANY

MR. KAUFMANN and MISS RECHENBERG

The courses in botany aim (a) to give the student a knowledge of the fundamental botanical laws and problems and hence are of considerable cultural value. In particular, they (b) give necessary botanical training for teachers of botany, biology and nature study, (c) establish the foundation for practical work in the related fields of pharmacy, bacteriology, general agriculture, forestry, horticulture, and landscape gardening, and (d) prepare students for graduate and research work.

Major: At least twenty-four credit hours which must include Botany 51, 52, 105 or 110 and Zoology 115.

Minor: At least sixteen credit hours which must include Botany 51 and 52.

COURSES IN BOTANY

51. GENERAL BOTANY.—(B) Sem. 1. 2+6, Cr. 4.

A general study of the cell, root, stem, leaf, and flower; followed by a survey of the Algae, Fungi, Liverworts, and Mosses. Emphasis is placed upon the morphology, physiology, life history, distribution, and economic importance of plants.

Laboratory fee \$5.00; deposit \$2.00.

Rechenberg.

52. GENERAL BOTANY.—(B) Sem. 2. 2+6, Cr. 4.

A survey of the Pteridophytes and Spermatophytes. Topics studied: Representative forms with emphasis upon the vascular types; their floral parts; development; and economic importance. Also field and laboratory study of the spring flora, involving the collection and identification of many native flowers.

Prerequisite: Botany 51, for a year's work; may also be taken separately.

Laboratory fee \$5.00; deposit \$2.00.

Rechenberg.

105. PLANT MORPHOLOGY.—(C) Sem. 1. 2+6, Cr. 4.

A study of the Thallophytes, involving their habitat, structure, reproduction, relationships, and economic importance. Special emphasis on morphology and the alternation of generations.

Prerequisite: Botany 51 and 52.

Laboratory fee \$3.00; deposit \$2.00.

Rechenberg.

110. PLANT MORPHOLOGY.—(C) Sem. 2. 2+6, Cr. 4.

A study of the Pteridophytes and Spermatophytes, including habitat, structure, life history and development of the sporophyte. Consideration of the ferns, cyads, conifers, and angiosperms.

Prerequisite: Botany 51 and 52.

Laboratory fee \$3.00; deposit \$2.00.

Rechenberg.

115. BACTERIOLOGY.—(C) Sem. 1. 2+6, Cr. 4.

A course in general bacteriology, embodying a study of the nature and botanical relationship of bacteria and other microorganisms; their relation to decomposition, food preservation, and disease. Lectures and discussions of cultural and staining properties, methods of diagnosis, inoculation, toxins, agglutinins, immunity and infection, and treatment of those bacteria causing diseases in man. Laboratory work with nonpathogenic bacteria, dealing with the preparation of culture media, methods of inoculation, of isolation and identification, and of sterilization. For student in Botany, Chemistry, Home Economics, Nurses Training, Pharmacy, Pre-Dentistry, Pre-Medicine, and Zoology.

Prerequisite: Eight credit hours in Botany, Zoology, or Chemistry.

Laboratory fee \$4.00; deposit \$2.00.

Kaufmann.

120. PLANT ANATOMY.—(C) Sem. 2. 1+6, Cr. 3.

This course consists primarily of a consideration of the structure, growth, and development of the tissue of seed plants. It is designed principally to meet the needs of Pharmacy students, the material being largely histological and taken wherever possible from medicinal plants. The course is also essential for students electing botany as a major, since it furnishes the proper basis for a study of the physiology, pathology, and morphology of plants.

Prerequisite: Botany 51 for Pharmacy students; Botany 51 and 52 for all others.

Laboratory fee \$4.00; deposit \$2.00.

Kaufmann.

125. PLANT PHYSIOLOGY.—(C) Sem. 1. 2+6, Cr. 4.

A course dealing with the fundamental life activities of plants: The movement of materials through the plant, food manufacture, storage, digestion, respiration, and other plant phenomena. A desirable elective for senior Pharmacy students and for Botany majors.

Prerequisite: Botany 51, 52 and 120 and Chemistry 51.

Laboratory fee \$4.00; deposit \$2.00.

Kaufmann.

130. GENETICS, EUGENICS, AND HEREDITY.—(C) Sem. 2. 2+6, Cr. 4.

A study of genetics in animal and plant breeding. Lectures and discussions on heredity and variation, statistical methods, mendelian inheritance,

factor linkage, pure lines, sex determination, inheritance in man, and problems in eugenics. Laboratory study of selected plant materials and experimental breeding of drosophila, guinea pigs, and white mice. For major and minor students in Biology, Botany, and Zoology.

Prerequisite: Twelve credit hours in Botany or Zoology.

Laboratory fee \$4.00; deposit \$2.00.

Kaufmann and Elliott.

135. MICROSCOPY OF DRUGS AND FOODS.—(C) Sem. 1. 1+3, Cr. 2.

Principally a study of the microscopic characteristics of certain important drugs and foods. Including also the calibration of the microscope; microscopic measurements; and drawing microscopic objects to scale. Particularly for Pharmacy students.

Prerequisite: Botany 120.

Laboratory fee \$3.00; deposit \$2.00.

Kaufmann.

140. LOCAL FLORA.—(C) Sem. 2. 1+3, Cr. 2.

The aim of this course is to acquaint the student with our native trees, shrubs, and flowers in order to develop a first hand knowledge and deeper appreciation of nature. Discussions and lectures relating to forestry, horticulture, landscape gardening, environmental and economic aspects of plant life. Field and laboratory work involving collection and identification of many species. For teachers of Biology and Nature Study, and Fine Arts and Liberal Arts students.

Laboratory fee \$2.00; deposit \$2.00.

Rechenberg.

191. THE TEACHING OF BOTANY.—(D) Sem. 1 or 2. 2+0, Cr. 2.

A teacher's course. Discussion of the aims and methods of teaching botany in secondary schools. Suggestions on and practice in collection, preservation, and preparation of materials for class use.

Prerequisite: Botany 52.

Laboratory fee \$2.00; deposit \$2.00.

(Omitted 1930-31.)

Kaufmann and Rechenberg.

RELATED COURSES IN ZOOLOGY

Zoology 115. Histology, Microtechnique, and Methods.

B. ZOOLOGY

ASSISTANT PROFESSOR ELLIOTT

The work in Zoology is designed (a) to give the student an appreciation of the animal life with which he daily comes in contact; (b) to provide the necessary training for teachers of Zoology, Biology, Physiology, and Nature Study; (c) to prepare students who wish to enter the field of Medicine, Dentistry, Nursing, Pharmacy, and Entomology; and (d) to prepare students for graduate and research work.

Major: At least twenty-four credit hours, which must include Zoology 51, 52, 105 and 115.

Minor: At least sixteen credit hours, which must include Zoology 51 and 52.

COURSES IN ZOOLOGY

51. GENERAL ZOOLOGY.—(B) Sem. 1. 2+6, Cr. 4.

A study of the structure, composition, and activities of protoplasm, followed by a survey of the invertebrate animals. Lectures and discussions on the habitats, structure, and economic relations of members of the various groups. Laboratory and field study of representative forms with emphasis on the morphology, life history, and zoological principles illustrated. Attention is also given to the species parasitic on man and domestic animals.

Laboratory fee \$5.00; deposit \$2.00.

Elliott.

52. GENERAL ZOOLOGY.—(B) Sem. 2. 2+6, Cr. 4.

A survey of the vertebrate groups of animals, with emphasis on morphology, life history, habits, distribution, and economic importance. Laboratory study of representative forms, particularly of the fish, frog, and bird. Some time will be given to the study of birds during their migration period. Field observation and collection trips will be made to adjacent regions, such as lakes and streams, the Dunes' Park, and the Field Museum at Chicago.

Prerequisite: Zoology 51 for a year's work; may also be taken as a separate unit.

Laboratory fee \$5.00; deposit \$2.00.

Elliott.

80. ELEMENTARY PHYSIOLOGY.—(B) Sem. 2. 2+3, Cr. 3.

This course is especially designed to meet the needs of the students in Elementary Education, Home Economics, and Pharmacy.

Laboratory fee \$3.00; deposit \$2.00.

Elliott.

105. VERTEBRATE ANATOMY.—(C). Sem. 1. 2+6, Cr. 4.

A comparative study of the morphology of vertebrate animals. Lectures, discussions, collateral readings, and laboratory dissection of the principal types, especially shark, necturus, turtle, and cat.

Prerequisite: Zoology 51 and 52; only 51 for two year pre-medics.

Laboratory fee \$5.00; deposit \$2.00.

Elliott.

110. VERTEBRATE EMBRYOLOGY.—(C) Sem. 2. 2+6, Cr. 4.

Lectures and discussions on the embryology of vertebrates in general with special emphasis on that of birds and mammals. Laboratory work deals with chick and pig.

Prerequisite: Zoology 51 and 52.

Laboratory fee \$5.00; deposit \$2.00.

Alternates with Zoology 120 according to demand.

Elliott.

115. HISTOLOGY, MICROTECHNIQUE AND METHODS.—(C) Sem. 1. 2+6, Cr. 4.

A course in the preparation of zoological and botanical slides by the paraffin, celloidin, freezing, venetian, turpentine, and glycerine methods, together with some study of tissues. Zoology students will ordinarily emphasize preparation of slides of frog and mammalian tissues, but may elect to make slides of invertebrate forms. Botany students will ordinarily stress

making slides of ferns and seed plants, but may elect those of the lower groups if they prefer. Biology majors and those preparing for teaching may prepare a teaching set of botany, zoology or biology slides according to preference and needs.

Prerequisite: Botany or Zoology 51 and 52.

Laboratory fee \$4.00; deposit \$2.00.

Elliott and Kaufmann.

120. ANATOMY AND PHYSIOLOGY.—(C) Sem. 2. 3+6, Cr. 5.

This course deals with the fundamentals of anatomy and physiology, particularly of the human body. Laboratory work dealing with the physiology of contractile tissues, circulation, respiration, digestion, nervous system, and sense organs.

Prerequisite: Zoology 51.

Laboratory fee \$5.00; deposit \$2.00.

Alternates with Zoology 110 according to demand.

Elliott.

140. ENTOMOLOGY AND ORNITHOLOGY.—(C) Sem. 2. 1+3, Cr. 2.

A study of both insects and birds, inclusive of many native species. Topics studied: Structure and life-history of insects, especially an account of the harmful and beneficial insects in their relation to man and his domesticated animals and plants; identification of birds; their adaptation to environment, mechanics of flight, structural modification, coloration and economic value. This course and Botany 140 meet the nature study requirement of the elementary teacher.

Laboratory fee \$2.00; deposit \$2.00.

Rechenberg.

191. THE TEACHING OF ZOOLOGY.—(D) Sem. 1. 2+0, Cr. 2.

A teacher's course. Discussion of the aims and methods of teaching zoology in secondary schools. Discussion of outlines for courses, texts, and laboratory manuals. Consideration of the equipment of the laboratory, and of the materials to be used, with suggestions on and practice in the collection, preservation, and preparation of materials.

Prerequisite: Ten credits in Zoology.

Laboratory fee \$2.00; deposit \$2.00.

(Given upon sufficient demand.)

Elliott.

RELATED COURSES IN BOTANY

Botany 115. Bacteriology.

Botany 130. Genetics.

PREPARATION FOR MEDICINE

ASSISTANT PROFESSOR ELLIOTT, *Adviser*

Students expecting to continue their work in a medical school should acquaint themselves early in their course with the general pre-medical requirements and the special requirements of the school of their choice. In this connection it is well to consult their adviser at the first opportunity.

All good American medical schools now require at least two years of pre-medical work. A number require three years and a few a Bachelor's degree for entrance.

The two-year program given below meets the requirements of those schools which demand two years of pre-medical preparation.

The three-year program meets the requirements of those medical colleges which demand seventy to ninety-five credit hours, and in addition constitutes a combined Arts-Medicine Curriculum for those students who desire to obtain the degrees of Bachelor of Arts and Doctor of Medicine. The student will receive the degree of Bachelor of Arts when he has satisfactorily completed the work of the first year in the medical school. For details see Combined Programs, Liberal Arts-Professional Courses.

TWO-YEAR PRE-MEDICAL PROGRAM

Freshman Year

<i>First Semester</i>		<i>Cr.</i>	<i>Second Semester</i>		<i>Cr.</i>
Eng.	1. Freshman Composition	3	Eng.	2. Freshman Composition	3
	German or French.....	3		German or French.....	3
Chem.	51. General Chemistry	4	Chem.	52. Inorganic Chemistry	4
Zool.	51. General Zoology	4	Zool.	52. General Zoology	4
Orient.	5. Freshman Lecture	1	Orient.	6. Freshman Lecture	1
P. E.	1. Sports and Gymnastics....½		P. E.	2. Sports and Gymnastics....½	
P. E.	3. Individual Health Program.½		P. E.	4. Individual Health Program.½	
	*Elective	2		*Elective	2
		—			—
		18			18

Sophomore Year

<i>First Semester</i>		<i>Cr.</i>	<i>Second Semester</i>		<i>Cr.</i>
	German or French.....	3		German or French.....	3
Chem.	101. Organic Chemistry (5) or		Psych.	51. General Psychology	3
Chem.	102. Organic Chemistry (6)...5-6		Chem.	106. Quantitative Analysis or	
Phys.	51. General Physics or		Chem.	107. Quantitative Analysis.....	4
Phys.	61. Technical Physics	4	Phys.	52. General Physics or	
Zool.	105. Vertebrate Zoology	4	Phys.	62. Technical Physics	4
			Zool.	110. Embryology (4) or	
			Zool.	120. Anatomy and Physiology	
				(5)	4-5
		—			—
		16-17			18-19

THREE-YEAR PRE-MEDICAL PROGRAM

Freshman Year

Same as that of the two year Pre-Medical Program.

Sophomore Year

Same as that of the two year Pre-Medical Program.

*Recommended Electives: Rel. 1, 2; Orient. 7, 8.

Junior Year

<i>First Semester</i>		<i>Cr.</i>	<i>Second Semester</i>		<i>Cr.</i>
	Latin	3	Soc. 102. Social Problems or		
Phil. 101.	Logic	3	Soc. 104. The Family	3	
Zool. 115.	Microtechnique	4	Chem. 140. Bio-chemistry	4	
	Electives	6-8	Zool. 110. Embryology (4) or		
			Zool. 120. Anatomy and Physiology		
			(5)	4-5	
			Electives	5-6	
		<hr/>			<hr/>
		16-18			16-18

Recommended Electives: Chemistry 110; Mathematics 51, 60; Political Science 51; Public Speaking 101 or 102; Religion 51, 52; Social Science 51, 52.

PREPARATION FOR DENTISTRY

Students desiring to prepare for Dentistry should learn the special requirements of the school of their choice. There is a wide variation in Pre-Dental course requirements in the different Dental Colleges. The minimum requirement is one year. Many colleges now require sixty semester hours credit for entrance.

The Pre-Dental courses outlined meet the requirements of practically all Dental Schools requiring either one or two years of Pre-Dental work.

THE ONE-YEAR PRE-DENTAL PROGRAM

Same as the freshman year of Pre-Medical Program.

THE TWO-YEAR PRE-DENTAL PROGRAM

The freshman year is the same as that of the Pre-Medical Program.

Sophomore Year

<i>First Semester</i>		<i>Cr.</i>	<i>Second Semester</i>		<i>Cr.</i>
	German or French.....	3		German or French.....	3
Chem. 101.	Organic Chemistry	5	Psych. 51.	General Psychology	3
Phys. 51.	General or		Phys. 52.	General or	
Phys. 61.	Technical Physics	4	Phys. 62.	Technical Physics	4
	Elective	5-6		Elective	6-8
		<hr/>			<hr/>
		17-18			16-18

Recommended Electives: Zoology 105 or 120; Mathematics 51 or 60; Political Science 51; Botany 125; Sociology 102 or 104.

PREPARATION FOR NURSING

Students preparing to enter training schools for Nurses will be guided by their adviser in following a curriculum best suited for the school of their choice.

CURRICULUM IN MEDICAL TECHNOLOGY

(Leading to the degree of Bachelor of Arts.)

Students interested in preparing for the position of laboratory technician in hospitals, research laboratories, or in offices of physicians engaged in private prac-

tice are urged to take the courses recommended below. These courses provide the basic knowledge in this field and give practical training in culturing; identification of bacterial and parasitic organisms related to man; technique in blood analysis, including haemoglobin determination, blood count, fixation tests; and methods of preparation, staining, and sectioning of normal and pathological tissues by the freezing, celloidin, and paraffin methods.

Recommended Courses

(1) Basic Courses—	Cr.
Chem. 51. General Chemistry; Chem. 52. Inorganic Chemistry; Chem. 101. Organic Chemistry; Chem. 105. Quantitative Analysis.....	16
Zool. 51. General Zoology; Zool. 105. Vertebrate Zoology.....	8
(2) Special Courses—	
Bot. 115. Bacteriology	4
Chem. 140 or 142. Bio-Chemistry.....	4-5
Pharm. 161. Pharmacological Standardization	1
Pharm. 175. Pharmacopoeial Assay	3
Zool. 115. Microtechnique and Methods; Zool. 80. Elementary Physiology or Zool. 120. Anatomy and Physiology.....	7-9

The requirements are 124 credit hours. The credits include (a) those studies required of freshmen and sophomores in the general B.A. curriculum and (b) the above recommended courses.

THE DEPARTMENT OF BUSINESS MANAGEMENT AND ECONOMICS

ASSOCIATE PROFESSOR LYNN, MR. SKINNER, AND MR. ZIMMERMAN

Aims—The aim of the Department of Business Management and Economics is to prepare students for responsible executive positions. The courses of study, while not limited to technical subjects, prepare for *secretarial training, accountancy, banking, insurance, advertising, salesmanship, office and industrial management, and the teaching of commercial subjects.*

In addition to training for business careers, the department provides instruction in the general aspects of economic relationships. Students interested chiefly from this point of view are advised to take the more general courses of the Economic major.

Pre-Commerce Requirements—Not less than 60 credits and 60 grade points should be acquired during the freshman and sophomore years if students wish to complete their curriculum in four additional semesters.

These pre-commerce credits must include (a) those studies required of freshmen and sophomores in the general Bachelor of Arts curriculum (See the Pre-commerce Program) and (b) eight credits in general economics, that is, Ec. 51, 52 and B.M. 41, 42.

Accountancy—It is not the intention to train all students to become professional accountants, but an intensive study of the subjects affords an opportunity to learn the fundamental principles and practices of business. At the same time accountancy has become one of the leading professions

as regards opportunity for service and remuneration. A mastery of the courses in accounting enables students to secure and hold worthwhile positions; it also equips them to take the examinations set by the State Boards and the American Institute of Accountants for the certificate of Certified Public Accountant.

Banking and Finance—Students who are interested in preparing for positions in banks, investment or stock brokerage concerns are directed to the outline of courses for a major in Finance. A thorough foundation for financial positions may be obtained by a combination of Accountancy and Finance as a major.

Insurance and Real Estate—Students interested in training for a career in the field of insurance and real estate, should consult the head of the department for details concerning a plan of study.

Training for Commercial Teaching—A curriculum has been prepared for those who desire to teach commercial subjects in secondary schools. The plan provides for a combination of Education courses with Business Management in order to satisfy the requirements of the various State Boards of Education for the certification of commercial teachers.

Secretarial Training—This curriculum should be of special interest to women, because women trained in secretarial work are in great demand. This training will enable them to enter social service and educational work, banking, insurance, and many other fields of business.

Chemistry-Commerce—The industrial world requires men who possess a knowledge of Chemistry and Business Management. The chemical industries can offer men with this training such positions as business manager, purchasing agent, technical secretary, etc.

Law-Business Management—Business activity in its varied forms touches the subject of law directly and indirectly. The Six-Year Business-Law Curriculum is recommended for those who desire to take a major in Business Management for an A.B. degree and later the Law course which leads to the LL.B. degree.

Business Observation Trips—Valparaiso University is fortunate in being located in one of America's great centers of business life, which includes Chicago, Indiana Harbor, Hammond, Gary, LaPorte, and South Bend. Thus there is ample opportunity for trips to the great industrial plants of this area.

Positions—The department does not assume responsibility for securing positions for its graduates, but it does extend every possible aid toward helping those who have made an excellent scholastic record.

PRE-COMMERCE PROGRAM

(Recommended Sequence)

Freshman Year

<i>First Semester</i>		<i>Cr.</i>	<i>Second Semester</i>		<i>Cr.</i>
Eng.	1. Freshman Composition	3	Eng.	2. Freshman Composition	3
	Social Science or History..	3		Social Science or History..	3
	Foreign Language	3		Foreign Language	3
Math.	55. College Algebra	3	Math.	56. Theory of Investment.....	3
Rel.	1. The Life of Christ or		Rel.	2. The Teachings of Jesus or	
Orient.	7. Music Appreciation*	2	Orient.	8. Art Appreciation*	2
Orient.	5. Psychology of Thinking and		Orient.	6. Use of Library	1
	Studying	1	P. E.	2. Sports and Gymnastics....	½
P. E.	1. Sports and Gymnastics	½	P. E.	4. Individual Health Program.½	
P. E.	3. Individual Health Program.½				
		—			—
		16			16

Sophomore Year

<i>First Semester</i>		<i>Cr.</i>	<i>Second Semester</i>		<i>Cr.</i>
Eng.	51. Survey of English Literature	2-3	Eng.	52. Survey of English Literature	2-3
Eng.	53. Fundamentals of Speech..	1	Eng.	54. Fundamentals of Speech...	1
	Foreign Language	3		Foreign Language	3
Geol.	51. Physiography†	4	Geol.	56. Economic Geography†	3
B.M.	41. Elementary Accounting ...	2	B.M.	42. Elementary Accounting...	2
Ec.	51. Principles of Economics..	3	Ec.	52. Principles of Economics..	3
P.E.	51. Survey of Games and		P.E.	52. Survey of Games and	
	Sports	0		Sports	0
		—			—
		16			15

A. BUSINESS MANAGEMENT

Majors: The Majors consist of a minimum of twenty-four or a maximum of forty-eight credit hours, exclusive of Business Management 2, 3, 4, 11, 41, and 42.

General Major: The courses, exclusive of Business Management 2, 3, 4, 11, 41, and 42, may be distributed as follows:

(1) *General Business:* Select courses from Business Management 51, 52, 103, 104, 106, 107, 131, 132, 142; Economics 51, 52, 101 141; Geology 51, 56.

*Business Management 2, 3, 4, 5 may be substituted.

†Another Science may be substituted.

(2) *Accountancy*: Select from Business Management, the following courses:

	Cr.
B.M. 101. Principles of Accountancy.....	3
B.M. 103. Managerial Accounting	3
B.M. 104. Cost Accounting	3
B.M. 153. Principles of Auditing.....	3
B.M. 155. Advanced Accounting	3
B.M. 156. Advanced Accounting	3
B.M. 158. Special Problems in Accounting.....	3
B.M. 199. Seminar	1-3
	—
	24

(3) *Banking and Finance*: Select from Business Management, the following courses:

	Cr.
B.M. 145. Public Finance	3
Ec. 151. Money and Banking.....	3
Ec. 162. Investments	3
B.M. 106. Business Finance	3
B.M. 161. Bank Management and Practice	3
B.M. 166. Financial Analysis, Credits and Collections.....	3
B.M. 168. Business Finance Problems.....	3
B.M. 199. Seminar	1-3
	—
	24

(4) *Marketing*: Select from Business Management the following courses:

	Cr.
B.M. 121. Principles of Marketing.....	3
B.M. 122. Sales Administration	3
B.M. 131. Business Law	3
B.M. 132. Business Law	3
B.M. 172. Problems in Marketing.....	3
Ec. 172. Transportation	3
B.M. 197. Reading Course in Business Management.....	3
B.M. 199. Seminar	1-3
	—
	24

Major in Secretarial Training: Select courses from Business Management 1, 5, 51, 52, 106, 107, 121, 122, 131, 132, 152, 166, 172; Economics 51, 52, 101, 141, 151, 162; English 61, 62, 101, 102, 103, 131, 132; Geology 56; Mathematics 65.

Majors in Preparation for Commercial Teaching:

(a) Select courses amounting to twenty-four credit hours from Business Management, 1, 2, 3, 4, 5, 51, 52, 103, 104, 131, 132; Economics 51, 52, 101; Geology 56; Mathematics 65.

(b) Select additional courses amounting to forty-eight credit hours from Business Management 121, 122, 152, 153, 155, 156; Economics 151, 162.

Minor: A Minor exclusive of 41 and 42, will ordinarily include one of 103, or 104, 51, 52 131, 132 and 106, or 121, or 142.

THE CURRICULUM FOR COMMERCIAL TEACHERS IN SECONDARY SCHOOLS

(Leading to the degree of Bachelor of Arts)

The work of the first two years is the same as that prescribed in the Pre-Commerce Program.

Junior Year

<i>First Semester</i>	<i>Cr.</i>	<i>Second Semester</i>	<i>Cr.</i>
B.M. 101. Principles of Account- ancy* or		B.M. 106. Business Finance* or	
B.M. 103. Managerial Accounting* or		B.M. 142. Industrial Management or	
B.M. 107. Business Statistics 3		B.M. 104. Cost Accounting 3	
B.M. 121. Principles of Marketing... 3		B.M. 122. Sales Administration* or	
Psych. 51. General Psychology 3		Math. 66. Theory of Finance..... 3	
Ed. 113. History of Education..... 3		Ed. 52. Educational Psychology ... 3	
Econ. 101. Economic History of U. S. 3		Ed. 118. Secondary Education 3	
Elective 1		Geol. 56. Economic Geography 3	
	—	Elective 1	—
	16		16

Senior Year

<i>First Semester</i>	<i>Cr.</i>	<i>Second Semester</i>	<i>Cr.</i>
B.M. 131. Business Law 3		B.M. 152. Business Problems and Pol- icies* or	
B.M. 153. Principles of Auditing* or		B.M. 132. Business Law 3	
B.M. 155. Advanced Accounting 3		B.M. 156. Advanced Accounting* or	
B.M. 161. Bank Management and Practice* or		B.M. 158. Special Problems in Ac- counting or	
Econ. 151. Money and Banking..... 3		B.M. 166. Financial Analysis, Credits and Collections 3	
Ed. 151. Principles of Teaching..... 3		Econ. 162. Investments 3	
B.M. 191. Teaching of Commercial Subjects 3		Ed. 191. Supervised Teaching 3	
Elective 1		Elective 4	
	—		—
	16		16

THE CURRICULUM FOR SECRETARIAL TRAINING

(Leading to the degree of Bachelor of Arts)

The work of the first two years is the same as that prescribed in the Pre-Commerce Program. Penmanship, Typewriting, Stenography, Advanced Stenography and Secretarial training are open to freshmen.

*One course to be selected.

Junior Year

<i>First Semester</i>	<i>Cr.</i>	<i>Second Semester</i>	<i>Cr.</i>
Foreign Language	3	Foreign Language	3
Engl. 61. Exposition	2	Engl. 62. Narration	2
Psych. 51. General Psychology	3	B.M. 106. Business Finance* or	
Pol.Sc. 51. Introduction to Political		B.M. 142. Industrial Management	3
Science	2	B.M. 122. Sales Administration* or	
B.M. 107. Business Statistics* or		B.M. 172. Problems in Marketing....	3
B.M. 121. Principles of Marketing...	3	Elective	5
Elective	3		
—			—
	16		16

Senior Year

<i>First Semester</i>	<i>Cr.</i>	<i>Second Semester</i>	<i>Cr.</i>
B.M. 131. Business Law	3	B.M. 152. Business Problems and Pol- ices* or	
Econ. 151. Money and Banking.....	3	B.M. 132. Business Law	3
Econ. 141. Labor Problems* or		B.M. 172. Problems in Marketing* or	
Econ. 101. Economic History of U. S..	3	B.M. 122. Sales Administration	3
Engl. 103. Argumentation	3	Econ. 162. Investments* or	
Elective	4	B.M. 166. Financial Analysis, Credits and Collections	3
		Engl. 102. Public Speaking	3
		Elective	4
—			—
	16		16

BUSINESS-LAW (SIX YEARS)

The work of the first two years is the same as that which is prescribed for Business Management.

Third Year

<i>First Semester</i>	<i>Cr.</i>	<i>Second Semester</i>	<i>Cr.</i>
B.M. 103. Managerial Accounting*		B.M. 152. Business Problems and Pol- icies	3
B.M. 107. Business Statistics	3	B.M. 166. Financial Analysis, Credits and Collections	3
B.M. 121. Principles of Marketing* or		B.M. 172. Problems in Marketing* or	
Econ. 141. Labor Problems	3	B.M. 122. Sales Administration	3
B.M. 51. Business Administration ...	3	Econ. 162. Investments	3
Econ. 101. Economic History of U. S.* or			
Econ. 151. Money and Banking.....	3	Elective	4
Elective	4		—
—			—
	16		16

Fourth, Fifth and Sixth Years

The regular law course as outlined in the School of Law.

*One course to be selected.

COURSES IN BUSINESS MANAGEMENT

1. PENMANSHIP AND SPELLING. Cr. 0.

Required of students in Business Management and Elementary Education. The students take these two subjects until able to pass the required tests.
Zimmerman.

2. BEGINNING TYPEWRITING. Each semester. 0+10, Cr. 1.

This course is open to all students in the University who wish to acquire skill in operating the typewriter. Strongly recommended to all students. Credit withheld until Advanced Typewriting is completed.

Typewriting fee, \$4.50.

Zimmerman.

3. ADVANCED TYPEWRITING. Each semester. 0+10, Cr. 1.

Continuation of course 2. Credit withheld until 35 words per minute test has been passed. Required of students in Business Management.

Typewriting fee, \$4.50.

Zimmerman.

4. BEGINNING STENOGRAPHY. Each semester. 0+5, Cr. 1.

A thorough study and practice of Gregg Shorthand. Open to all students. Credit withheld until Advanced Stenography is completed.

Zimmerman.

5. ADVANCED STENOGRAPHY AND SECRETARIAL TRAINING. Each semester. 0+5, Cr. 2.

An advanced course which places special emphasis on phrasing, transcribing, correct business English, the duties of a private secretary, including mail procedure, billing, negotiable instruments, credit procedure, legal papers, filing, use of office appliances, collecting data, reports of various kinds and types, literary work, business letter writing, and organization of office work from the point of view of a secretary. This course is correlated with advanced typewriting.

Zimmerman.

11-12. COMMERCIAL DESIGN. Yr. Each semester. 0+3, Cr. 1.

The object of the course is to give practical instruction in lettering and design. The study and practice embodies the most approved forms and methods of plain lettering; the fundamentals of engrossing, embossing, illuminating, art border, and resolution designing.

Zimmerman.

41. ELEMENTARY ACCOUNTING.—(B) Sem. 1. 2+2, Cr. 2.

Consideration is given to the fundamental principles of accounting through their application to single proprietorships, partnerships, and corporations. The principles are evolved by a detailed study of the accounting process, which involves recording various kinds of transactions in the books of original entry, posting to ledgers, preparation of trial balances, making, adjusting, and closing entries, the preparation of final statements, closing books, and attention to the topics of depreciation, interest, discounts, and consignments.

Skinner

42. ELEMENTARY ACCOUNTING.—(B) Sem. 2. 2+2, Cr. 2.

Continuation of Business Management 41.

Prerequisite: Business Management 41 or the equivalent.

Skinner.

51. BUSINESS ADMINISTRATION.—(C) Sem. 1. Cr. 3.

The subject matter consists of a study of factors in plant location, organization, administration of personnel, finance, marketing, and production; it affords a survey study of the operations of a business and the application of the principles of policy, organization, and procedure to business cases. Trips to a few of the great industrial plants of this region are an integral part of the course.

Lynn.

52. BUSINESS COMMUNICATION.—(B) Cr. 3.

The various ways and means of business communication, business writing and correspondence, and an introduction to advertising constitutes the course.

(Omitted 1930-31.)

101. PRINCIPLES OF ACCOUNTANCY.—(C) Cr. 3.

This course considers the further development and application of accounting theory to the balance sheet; income and expense statements as regards form, correctness of content, and related topics; the principles of valuation as applied to land, buildings, machinery, tools, fixtures, furniture, working assets, and investments; methods of determining depreciation and ways of recording it on the books, accounting for sinking fund, reserves, secret reserves, surplus, undivided profits, dividends, consolidations, branch house accounting, interpretation of data on balance sheets, liquidation, and other problems. The laboratory material consists of exercises and problems.

Prerequisite: Business Management 42.

Skinner.

103. MANAGERIAL ACCOUNTING.—(C) Cr. 3.

Presents an opportunity to study the application of the principles of accountancy to business administration from the executive viewpoint. The subject matter includes the definition of standards, characteristic features of records, organization for controllership accounting, statistical and budgetary control, the preparation and interpretation of financial statements, the accounting methods and procedure applied in the control of sales, purchases, and production. The practice material consists of a select group of problems. Written solution reports based on the laboratory problems and exercises are required.

Prerequisite: Business Management 42, or the equivalent.

(Omitted 1930-31.)

104. COST ACCOUNTING.—(C) Cr. 3.

This course thoroughly covers the general principles of the subject, and shows the importance of cost records as an integral part of a complete system of records. The significance of the need of cost records in the administration and control of industrial enterprise is emphasized. Topics considered are classifications of costs, job order, and process cost accounting, accounting for materials, labor and manufacturing expense, estimating cost systems, standard costs, uniform costs, and the preparation of analytical statements.

Prerequisite: Seven credits in Accounting.

Skinner.

106. BUSINESS FINANCE.—(C) Cr. 3.

This subject considers the problems of financing a private business; the ways, means, and methods of finance administration through a study of capitalization; instruments of finance, stocks, bonds, notes, short and long term financing, promotion, financial standards, business and the banks; extending credit and its effects on the financial program, budgeting and the distribution of earnings.

Prerequisite: Business Management 42 and Economics 52.

Skinner.

107. BUSINESS STATISTICS.—(C) Cr. 3.

This course considers the elementary principles of statistical method, which includes collection of data, its classification and interpretation; a study of averages and their uses, ratios, percentages, correlation, business barometers, the graphic presentation of statistical results by means of charts, graphs, diagrams, and the application of the principles of statistics to business problems. The laboratory material consists of exercises and problems.

Prerequisite: Business Management 42.

(Omitted 1930-31.)

121. PRINCIPLES OF MARKETING.—(C) Cr. 3.

The subject matter is based on a study of market forces, structures, functions, trade channels, the development of marketing methods, middlemen, the organized produce exchanges, speculation, chain stores, mail order houses, price policies, market analysis, and the coordination of market policies. Laboratory work consists of case and problem materials.

Prerequisite: Business Management 51.

(Omitted 1930-31.)

122. SALES ADMINISTRATION.—(C) Sem. 1. Cr. 3.

This course includes a study of the development of sales organizations, market analysis, policies, selection and training of a sales force, knowledge of goods, analysis of the personal selling process, planning for personal selling, psychological aspects of selling, the sales interview, sales methods, methods of compensating salesmen, sales conferences and conventions, survey of literature of selling, and ethics of salesmanship.

Prerequisite: Business Management 51.

Lynn.

131. BUSINESS LAW.—(C) Sem. 1. Cr. 3.

Business law deals with the legal aspects of business administration as it applies to organization, marketing, finance, personnel, purchasing, risk, and other matters. The text and case material includes contracts, agency, negotiable instruments, corporations, partnerships, sales, personal and real property, mortgages, bailments, insurance, wills, and administration.

Prerequisite: Junior Standing.

Lynn.

132. BUSINESS LAW.—(C) Sem. 2. Cr. 3.

Continuation of Business Management 131.

Prerequisite: Business Management 131, or the equivalent.

Lynn.

142. INDUSTRIAL MANAGEMENT.—(C) Cr. 3.

This course includes a survey of the literature in this field. It serves as an introduction to the subject of production. The problems of industrial management are studied by means of analysis, synthesis, standardization, and records. Attention is given to the planning, scheduling, buying, receiving, storing and insuring of materials, dispatching work through the factory, and the coordination of control records.

Lynn.

152. BUSINESS PROBLEMS AND POLICIES.—(D) Cr. 3.

A course planned to correlate the subject matter of the other courses offered in this Department by the application of the principles of business to specific problems, in office management, finance, sales, purchasing, production, personnel, and controllership. The use of statistics and accounting, financial and operating ratios, in business control, are emphasized.

Open only to Seniors.

(Omitted 1930-31.)

153. PRINCIPLES OF AUDITING.—(D) Cr. 3.

Treats of the application of accounting theory and practice to the preparation and procedure followed in performing the various steps in balance sheet, detailed, and special audits. The laboratory material consists of problems, exercises, and questions. Consideration is given to the audit plan, the preparation of the working papers, and to the content and arrangement of the accountant's report as the finished product given to the client.

Prerequisite: Ten credits in Accountancy.

(Omitted 1930-31.)

155. ADVANCED ACCOUNTING.—(D) Sem. 1. Cr. 3.

An advanced course in theory and practice of accountancy, intended for those who expect to take the examination for the title and certificate of Certified Public Accountant. Subject matter includes profits, preparation and analysis of statements, partnerships, corporations, trusts, treasury stock, no part stock, dividends, controlling accounts, agencies, branches, consignments, venture accounts, statements of affairs, application of funds, bonds, amortization, reserves, funds, consolidated statements, and mergers.

Prerequisite: Ten credits in Accountancy.

(Omitted 1930-31.)

156. ADVANCED ACCOUNTING.—(D) Sem. 2. Cr. 3.

Continuation of Business Management 155.

(Omitted 1930-31.)

158. SPECIAL PROBLEMS IN ACCOUNTING.—(D) Cr. 3.

The subject matter is varied according to the needs and desires of the class members. A choice of governmental accounting, budget making, the Federal Income Tax and regulations with problems constitute the material for a semester. Systems, preparation and installation with a view to focusing the training of the student on the problems of systematization in professional practice, may be chosen as the basis of the course. Problems, exercises, and questions.

Prerequisite: Thirteen credits in Accountancy.

Skinner.

161. BANK MANAGEMENT AND PRACTICE.—(D) Cr. 3.

The purpose is to study policies, organization and procedure, duties of directors, officers, and employees; policies in relation to individuals and business firms. The economics of banking as well as the practical features will be studied.

Prerequisite: Economics 151 and seven credits in Accounting.

Lynn.

166. FINANCIAL ANALYSIS, CREDITS AND COLLECTIONS.—(D) Cr. 3.

A study is made of the relationship of the various asset, liability, and net worth items shown on various types of balance sheets and financial statements; the form and classes of credits, sources of credit information, credit organization and procedure, qualifications of a credit manager, the nature, need, history, and development of credit work.

Prerequisite: Seven credits in Accountancy and Business Management 106. (Omitted 1930-31.)

168. BUSINESS FINANCE PROBLEMS.—(D) Cr. 3.

A course in financial and security market analysis; the factors controlling these markets; method of analysis used in practice with special relation to security prices and the business cycle; stock exchange principles and practice. Each member of the class is required to make a study and report on a given subject. A one-day trip will be made to the Chicago Stock Exchange.

Prerequisite: Fifteen credits in Business Management.

Lynn.

172. PROBLEMS IN MARKETING.—(D) Cr. 3.

The subject matter includes special studies in purchasing and selling. Adaptation is made to the special needs of the class. A thorough study is made of the topic undertaken.

Prerequisite: Business Management 121 or 122.

Lynn.

191. THE TEACHING OF COMMERCIAL SUBJECTS.—(D) Cr. 3.

A teachers' course. The materials for study include a historical survey of the development of commercial education; the high school commercial curriculum and current tendencies in curriculum making; methods in teaching business administration, commercial geography, business English, commercial arithmetic, accounting, business law salesmanship, shorthand, typewriting, penmanship, and office training.

Prerequisite: Senior standing in Business Management and Education.

Skinner.

196. BUSINESS LECTURES.—(D) Sem. 2. Cr. 1.

A series of lectures by outside speakers on various topics. Assigned readings and note-book reports. Required of all Seniors.

197-198. READING COURSE IN BUSINESS MANAGEMENT.—(D) Cr. 1, 2 or 3.

This course provides an opportunity for independent reading and investigation on topics of individual or special interest. Registration is limited to those students whom the Department deems qualified to undertake the work of the chosen topic successfully. The student is required to report to the instructor in charge at least once a week for consultation and direction.

Prerequisite: Twelve credits in Business Management for students with a minimum of B standing.

199. SEMINAR.—(D) Credits arranged.

Topics chosen for study are to be mutually agreed upon by the individual student and the head of the Department. Hours and credits are to be arranged. Required of all Seniors. Lynn.

RELATED COURSES IN ECONOMICS AND IN OTHER DEPARTMENTS

Economics	51-52.	Principles of Economics.
Economics	101.	Economic History of the United States.
Economics	141.	Labor Problems.
Economics	152.	Money and Banking.
Economics	162.	Investments.
Economics	172.	Transportation.
Geology	56.	Economic Geography.
Mathematics	65.	Theory of Investments

B. ECONOMICS

Major: 24 credits or 48 credits exclusive of Economics 51 and 52.

Minor: 12 credits, excluding Economics 51 and 52, are required.

Credits are chosen from the following groups—Economics 101, 141, 145, 151, 162, 171, 181; Business Management 103, 106, 107, 121, 131, 132, 142, 161, 166, 168.

COURSES IN ECONOMICS

51. PRINCIPLES OF ECONOMICS.—(B) Sem. 1. Cr. 3.

This is a basic course designed to acquaint the student with fundamental economic concepts. The processes of production, exchange, distribution, and consumption of wealth are analyzed, and their relation to current economic problems discussed. Credit withheld until Economics 52 is successfully completed.

Prerequisite: Sophomore standing.

Skinner.

52. PRINCIPLES OF ECONOMICS.—(B) Sem. 2. Cr. 3.

Continuation of Economics 51.

Prerequisite: Economics 51.

Skinner.

101. ECONOMIC HISTORY OF THE UNITED STATES.—(C) Sem. 1. Cr. 2 or 3.

The origin and development of modern American economic institutions and life.

Prerequisite: Economics 52.

(Omitted 1930-31.)

141. LABOR PROBLEMS.—(C) Sem. 1. Cr. 3.

This is a survey course dealing with (1) the history of labor and the main forces underlying our modern labor problems, (2) the approach of workers and employers to their labor problems, (3) the development of trade unions and other institutions, and (4) social control.

Prerequisite: Economics 52.

Alternates with Economics 151.

Lynn.

145. PUBLIC FINANCE.—(C) Cr. 3.

A course in the theory and practice of taxation; theories and classification of public expenditures, national, state, and local; budget making in theory and practice.

Prerequisite: Economics 52.

(Omitted 1930-31.)

151. MONEY AND BANKING.—(D) Sem. 1. Cr. 3.

The following topics are considered: the importance and the principles of sound money; the gold standard; centralized banking; the national banking system; theory of averting panics and crises under the Federal Reserve System.

Prerequisite: Economics 52.

Alternates with Economics 141.

Skinner.

162. INVESTMENTS.—(D) Sem. 2. Cr. 3.

This course undertakes an analysis of the general principles of investment; classification of securities; investment opportunities; mathematics of yields and conversions; methods of protection; sources of information; general work of the bond house.

Prerequisite: Economics 52.

Alternates with Economics 172.

(Omitted 1930-31.)

172. TRANSPORTATION.—(D) Sem. 2. Cr. 3.

The development of the American railroad system; the branches of the railroad service; classification and rates; public aid and regulation in the United States and foreign countries.

Prerequisite: Economics 52.

Alternates with Economics 162.

Lynn.

182. ADVANCED ECONOMICS.—(D) Cr. 3.

The primary purpose of the course is to provide an opportunity for a study of methods, analysis, and some experience in the critical examination of current economic theories.

Prerequisite: Senior standing and 15 credits.

(Omitted 1930-31.)

RELATED COURSES IN BUSINESS MANAGEMENT

- | | | |
|------|----------|--|
| B.M. | 103. | Managerial Accounting. |
| B.M. | 106. | Business Finance. |
| B.M. | 107. | Business Statistics. |
| B.M. | 121. | Principles of Marketing. |
| B.M. | 131-132. | Business Law. |
| B.M. | 142. | Industrial Management. |
| B.M. | 161. | Bank Management and Practice. |
| B.M. | 166. | Financial Analysis, Credits and Collections. |
| B.M. | 168. | Business Finance Problems. |

THE DEPARTMENT OF CHEMISTRY

PROFESSOR FULLER, ASSISTANT PROFESSOR THRUN

The work of this department is arranged to meet the needs of students who are preparing (a) to major in chemistry or (b) to become pharmaceutical chemists, pharmacists, physicians, dentists, and chemical engineers, or (c) to be teachers of chemistry in high schools and colleges.

Students who choose chemistry as their major subject begin the study in their sophomore year. Collateral work may be chosen, in the junior and senior years, from the courses in bio-chemistry, advanced organic and inorganic chemistry.

Major: 24 credits; will ordinarily take the following courses: 64, 101, 106, 107, 140, 182; at the discretion of the department, Chemistry 51 and 52 and Botany 115 (Bacteriology) may be included.

Minor: 12 credits; must include Chemistry 51, 52, and 64. The following additional course is suggested: Chemistry 101 or 106.

CHEMICAL ENGINEERING

Three years of Chemical Engineering may be taken under the guidance of the Department of Chemistry. The balance of the work necessary to complete this program must be taken at an approved school. The student may complete the balance of the work in from one to two years; it will depend upon the school selected. The degree of Bachelor of Arts is granted upon the completion of the senior year. As to procedure, see under "Combined Programs."

To complete three years of this curriculum, the student should take the following work:

Freshman Year

	<i>First Semester</i>	<i>Cr.</i>		<i>Second Semester</i>	<i>Cr.</i>
Eng.	1. Freshman Composition.....	3	Eng.	2. Freshman Composition	3
	Foreign Language	3		Foreign Language	3
Math.	51. Mathematical Analysis	5	Math.	52. Mathematical Analysis	5
P.M.	10. Woodshop or		Chem.	52. Inorganic Chemistry	4
P.M.	58. Machine Shop and Forge...	2	Chem.	62. Qualitative Analysis	2
Chem.	51. General Chemistry	4	P.E.	4. Individual Health Program.½	
P.E.	3. Individual Health Program.½		P.E.	2. Sports and Gymnastics.....½	
P.E.	1. Sports and Gymnastics.....½				
		—			—
		18			18

Sophomore Year

	<i>First Semester</i>	<i>Cr.</i>		<i>Second Semester</i>	<i>Cr.</i>
	Foreign Language	3		Foreign Language	3
	English Elective	2	Math.	112. Integral Calculus	5
Math.	111. Differential Calculus	5	P.M.	2. Engineering Drawing	3
P.M.	1. Engineering Drawing	3	P.M.	51. Descriptive Geometry	2
Chem.	106. Quantitative Analysis	4	Chem.	107. Quantitative Analysis	4
P.E.	51. Survey of Games and Sports	0	P. E.	52. Survey of Games and Sports	0
		—			—
		17			17

Junior Year

	<i>First Semester</i>	<i>Cr.</i>		<i>Second Semester</i>	<i>Cr.</i>
Phys.	61. Technical Physics	4	Phys.	62. Technical Physics	4
	Foreign Language*	2		Foreign Language*	2
Ec.	51. Principles of Economics....	3	Ec.	52. Principles of Economics....	3
M.E.	118. Machine Design	4	C.E.	60. Applied Mechanics	5
Chem.	101. Organic Chemistry	5	Chem.	182. Physical Chemistry	4
P.E.	101. The Advanced Sports		P.E.	102. The Advanced Sports	
	Program	0		Program	0
		—			—
		18			18

*Elective, if the foreign language requirement has been met.

CURRICULUM IN CHEMISTRY-COMMERCE

The industrial world requires men who possess a knowledge of Chemistry and Business Management. The chemical industries can offer men with this training such positions as business manager, purchasing agent, and technical secretary. The majors of the curriculum in Chemistry-Commerce embrace 24 crédit hours of Business Management and 24 crédit hours of Chemistry.

Freshman Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
Eng.	1. Freshman Composition....	3	Eng.	2. Freshman Composition....	3
	Foreign Language	3		Foreign Language	3
Orient.	1. Survey of Social Science..	3	Orient.	2. Survey of Social Science...	3
B.M.	41. Elementary Accounting ...	2	B.M.	42. Elementary Accounting....	2
Math.	51. Mathematical Analysis	5	Math.	52. Mathematical Analysis....	5
P.E.	3. Individual Health		P.E.	4. Individual Health	
	Program	½		Program	½
P.E.	1. Sports and Gymnastics....	½	P.E.	2. Sports and Gymnastics....	½
		—			—
		17			17

Sophomore Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
Eng.	51. Survey of English Literature	3	Eng.	52. Survey of English Literature	3
Eng.	53. Fundamentals of Speech....	1	Eng.	54. Fundamentals of Speech....	1
	Foreign Language	3		Foreign Language	3
Ec.	51. Principles of Economics....	3	Ec.	52. Principles of Economics....	3
Chem.	51. General Chemistry	4	Chem.	52. Inorganic Chemistry	4
P.E.	51. Survey of Games and Sports	0	Chem.	62. Qualitative Analysis	2
	Elective	2	P.E.	52. Survey of Games and Sports	0
		—			—
		16			16

Junior Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
Phys.	51. General Physics	4	Phys.	52. General Physics	4
	Foreign Language	3		Foreign Language	3
Chem.	101. Organic Chemistry	5	Chem.	106. Quantitative Analysis	4
	Elective* in Business Man-			Elective* in Business Man-	
	agement or			agement or	
	Geology	4		Geology	4
		—			—
		16			15

Senior Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
B.M.	131. Business Law	3	B.M.	132. Business Law	3
Ec.	151. Money and Banking.....	3	B.M.	142. Industrial Management ...	3
Chem.	180. History of Chemistry.....	1		Elective†	10
	Elective†	9			—
		—			—
		16			16

*Recommended junior elective: Business Management 51, 103, 104, 106; Geology 51, 52.

†Recommended senior elective: Business Management 152, 168, 171, 172; Economics 171; Chemistry 140, 157, 170, 182.

COURSES IN CHEMISTRY

51. GENERAL CHEMISTRY.—(B) Sem. 1. 3+3, Cr. 4.

Fundamental laws are taken up and the student is thoroughly grounded by means of lectures and experiments. A few of the most common elements are described.

Laboratory fee \$6.00; deposit \$4.00.

Fuller.

52. INORGANIC CHEMISTRY.—(B) Sem. 2. 3+3, Cr. 4.

A continuation of Chemistry 51. The properties of the elements, both chemical and physical, are studied and their reactions with one another are noted in the light of the most modern atomic theory and ionic hypothesis.

Prerequisite: Chemistry 51.

Laboratory fee \$6.00; deposit \$4.00.

Fuller.

62. QUALITATIVE ANALYSIS.—(B) Sem. 2. 0+6, Cr. 2.

Separation and identification of all important cations and anions are studied. This course is especially suited to the needs of those studying pharmacy and medicine.

To accompany Chemistry 52.

Laboratory fee \$6.00; deposit \$4.00.

Fuller.

64. QUALITATIVE ANALYSIS.—(B) Sem. 2. 0+9, Cr. 3.

Separation and identification of all important cations and anions, both wet and dry reactions. This course is preparatory to the courses in Quantitative Analysis.

To accompany Chemistry 52.

Laboratory fee \$6.00; deposit \$4.00.

Fuller.

101. ORGANIC CHEMISTRY.—(C) Sem. 1. 3+6, Cr. 5.

A brief survey of the compounds of carbon, their preparation, properties, and applications is made.

Prerequisite: Chemistry 52.

Laboratory fee \$7.50; deposit \$4.00.

Thrun.

102. ORGANIC CHEMISTRY.—(C) Sem. 1. 3+9, Cr. 6.

A brief survey of the compounds of carbon, their preparation, properties, and applications is made. Same as 101 with one more laboratory period for pre-medical students.

Prerequisite: Chemistry 52.

Laboratory fee \$10.00; deposit \$4.00.

Thrun.

103. ORGANIC CHEMISTRY.—(C) Sem. 1. 3+3, Cr. 4.

A brief survey of the compounds of carbon, their properties, preparation, and applications is made. Same as 101 with one less laboratory period for students in Home Economics.

Prerequisite: Chemistry 52.

Laboratory fee \$6.00; deposit \$4.00.

Thrun.

105. QUANTITATIVE ANALYSIS.—(C) Sem. 1. 1+6, Cr. 3.

This is a brief course in both gravimetric and volumetric methods, designed to meet the needs of students in Pharmacy.

Prerequisite: Chemistry 62.

Laboratory fee \$6.00; deposit \$4.00.

(Not given after 1930.)

Fuller.

106. QUANTITATIVE ANALYSIS, GRAVIMETRIC.—(C) Each semester. 1+9, Cr. 4.

Use of the balance. Filtration, washing, and ignition of precipitates. A number of inorganic substances are selected for analysis with the object of giving the student practice in the various operations in gravimetric analysis.

Prerequisite: Chemistry 62.

Laboratory fee \$6.00; deposit \$4.00.

Fuller.

107. QUANTITATIVE ANALYSIS, VOLUMETRIC.—(C) Each semester, 1+9, Cr. 4.

Calibration of burettes and other measuring vessels. Acidmetry, alkali-metry, oxidation and reduction and precipitation methods of titration.

Prerequisite: Chemistry 62.

Laboratory fee \$6.00; deposit \$4.00.

Thrun.

108. PHARMACEUTICAL ORGANIC CHEMISTRY.—(C) Sem. 2. 2+6, Cr. 4.

This course includes a study of the preparation, identification, properties, and uses of many compounds of complex nature that have not been taken up in Organic Chemistry 101. It also includes a study of the structure and the synthesis of typical alkaloids and their tests.

Laboratory fee \$7.50; deposit \$4.00.

(Not given after 1931.)

Harwood.

110. PHARMACEUTICAL ORGANIC CHEMISTRY.—(C) Sem. 2. 1+6, Cr. 3.

This course is the same as 108 with one less lecture period. It is a part of the regular four year Pharmacy curriculum.

Laboratory fee \$7.50; deposit \$4.00.

(Omitted 1930-31.)

140. BIO-CHEMISTRY.—(C) Sem. 2. 3+3, Cr. 4.

The chemistry of proteins, carbohydrates, and fats, and the changes these undergo during processes of digestion and metabolism. Brief consideration of enzymes and vitamins. Special emphasis is placed upon the application of colloid chemistry to problems in bio-chemistry.

Prerequisite: Chemistry 101.

Laboratory fee \$7.50; deposit \$4.00.

Thrun.

142. BIO-CHEMISTRY.—(C) Sem. 2. 3+6, Cr. 5.

Same as 140 with one more laboratory period.

Laboratory fee \$7.50; deposit \$4.00.

Thrun.

151. ADVANCED BIO-CHEMISTRY.—(D) Sem. 1. 2+6, Cr. 4.
Advanced consideration of the chemistry of plant and animal life.
Prerequisite: Chemistry 140.
Laboratory fee \$7.50; deposit \$4.00. Thrun.
153. PHARMACEUTICAL INORGANIC CHEMISTRY.—(D) Sem. 1. 1+6, Cr. 3.
This course includes the preparation of important inorganic pharmaceutical compounds, qualitative tests for impurities in them, the chemistry of inorganic antidotes, and a consideration of buffer action in relation to hydrogen ion concentration.
Prerequisite: Chemistry 62.
Laboratory fee \$6.00; deposit \$4.00. Thrun.
155. SYNTHETIC ORGANIC CHEMISTRY.—(D) 2+9, Cr. 5.
The preparation and properties of important organic compounds are taken up in this work. The purpose of the course is practical training in the manufacture of certain organic chemicals.
Prerequisite: Chemistry 101 and 105, or the equivalent.
Laboratory fee \$6.00; deposit \$4.00. Thrun.
156. WATER ANALYSIS.—(D) Sem. 1. 0+6, Cr. 2.
Analysis of water from the sanitary and industrial standpoints.
Prerequisite: Chemistry 105, or an equivalent.
Laboratory fee \$6.00; deposit \$4.00. Thrun.
(Given on demand.)
157. INDUSTRIAL CHEMISTRY.—(D) Sem. 1. 2+0. Cr. 2.
Lectures on the large scale manufacture of the more important chemicals, such as sulfuric acid, ammonia, and the alkalis.
Fuller.
170. METHODS OF CHEMICAL RESEARCH.—(D) Sem. 2. Cr. 2 to 5.
A course for seniors in Chemistry. Elementary research problems are attacked under the direction of the members of the Department. A final report is required.
Laboratory fee \$2.50 per credit; deposit \$4.00. Fuller and Thrun.
176. ORGANIC ANALYSIS.—(D) Sem. 2. 0+6. Cr. 2.
Determinations of carbon, hydrogen, oxygen, and nitrogen in various organic substances.
Prerequisite: Chemistry 101 and 105.
Laboratory fee \$6.00; deposit \$4.00. Fuller.
(Given on demand.)
180. HISTORY OF CHEMISTRY.—(D) Sem. 2. 1+10. Cr. 1.
A survey of the history of chemical science from the earliest period to the present time. Lectures and collateral reading.
(Given on demand.) Fuller.
182. ELEMENTARY PHYSICAL AND THEORETICAL CHEMISTRY.—(D) Sem. 2. 3+3. Cr. 4.
The most essential theories and principles underlying the science of chemistry such as chemical equilibria, velocity of reactions, and the elements of thermodynamics and entropy are studied.

Prerequisite. Physics 52 or 62. Permission of instructor required before electing the course.

Laboratory fee \$6.00; deposit \$4.00.

Fuller.

191. THE TEACHING OF CHEMISTRY.—(D) Cr. 2.

This course is designed to meet the needs of students preparing to teach science in high schools. Methods of arousing interest in pupils are discussed and the preparation of experiments for the lecture table are elucidated.

Prerequisite: Chemistry 101.

(Given in alternate years.)

Fuller.

THE DEPARTMENT OF EDUCATION AND PSYCHOLOGY

PROFESSOR WEBER AND ———

A. EDUCATION

Purpose—Work in Education is planned to meet the needs of the following groups of students:

1. Candidates who wish to qualify for an A. B. degree and to teach in the elementary schools.
2. Candidates who wish to qualify for an A. B. degree and for a regular high school teacher's license.
3. Candidates desiring to qualify for this degree and for the first grade special high school teacher's license in art, commercial subjects, home economics, industrial arts, and physical education.
4. Candidates for the A. B. degree with a major in music who wish to qualify for the special high school teacher's license in music.
5. Candidates for the A. B. degree with a major in another department of the College of Liberal Arts who select Education as a minor.

REQUIREMENTS FOR AN ELEMENTARY SCHOOL TEACHER'S LICENSE

All candidates for an elementary high school teacher's license are to meet the following requirements:

1. The entrance requirements of the University.
2. The general requirements of the junior college curriculum.
3. The particular group requirements of the senior college curriculum, equivalent to the minimum amount of academic and professional work which may be necessary for an elementary school teacher's license.
4. The courses in Education required for the kind of license desired.
5. Electives for the remaining hours needed to make a total of 124 semester hours of credit as required for graduation.

For the courses of this curriculum, not under Education, see list of courses on last page of the Department of Education.

REQUIREMENTS FOR A HIGH SCHOOL TEACHER'S LICENSE

All candidates for a regular and special high school teacher's license are to meet the following requirements:

1. The entrance requirements of the University.
2. The general requirements of the junior college curriculum.

3. The particular group requirements of the senior college curriculum, equivalent to the minimum amount of academic and professional work which may be necessary for one or the other of the various licenses.

4. The courses in Education required for the kind of license desired.

5. Electives for the remaining hours needed to make a total of 124 semester hours of credit as required for graduation.

For the curricula in commercial subjects, home economics, industrial arts, and physical education, see under the respective departments.

Detailed statements of requirements of the Indiana State Board of Education are found in the official bulletins of the State Department of Public Instruction. See especially Bulletin 94, 1927 (Rev. Ed.). Similar statements of the requirements in other states are on file in the office of this Department.

Careful attention should be given to the requirements of the various states for a definite professional objective. Each student, therefore, is required to have his particular curriculum as well as the sequence of courses in his case approved by his adviser in Education.

COURSES IN EDUCATION

51. INTRODUCTION TO THE STUDY OF EDUCATION.—(B) Sem. 1. Cr. 3.

Some of the topics treated are: The organization of public and private education; the place and importance of education in our national life; the problems of education as they relate to the pupil, the teacher, and the parent; the general nature of the learning and the teaching processes; the educational reorganizations now under way; the scope of public and private school systems; financing public education; and present-day problems of educational work.

52. EDUCATIONAL PSYCHOLOGY.—(B) Sem. 2. Cr. 3.

A study of man's native equipment, the laws of learning, and economical methods of mastering the major subjects of the curriculum. Special consideration is given to the study of native capacities, emotions, and the dynamic role of instincts in school work.

Prerequisite: Psychology 51.

113. HISTORY OF EDUCATION.—(C) Sem. 1. Cr. 3.

A substitute for practice exemption. Educational theory and practice, beginning with the Greek and Roman periods, with the chief emphasis on the eighteenth and nineteenth century forces which have resulted in the creation of our modern national school system.

118. SECONDARY EDUCATION.—(C) Sem. 2. Cr. 3.

A course dealing with the purposes of the American secondary school and the ways and means by which those purposes are accomplished. Some of the topics treated are: American and European secondary education; problems in reorganization; characteristics of adolescence; the technique of guidance; the curriculum in terms of educational aims and objectives; the purposes governing the various activities of the departments of the school.

120. TESTS AND MEASUREMENTS.—(C) Sem. 2. Cr. 3.

An introductory course in tests. The course will cover the uses of mental and subject-matter tests including those that can be made by the

class room teacher. Such topics as the selection of tests, giving and scoring tests, and application of results to individual problems will be treated.

Fee for materials, \$3.00.

122. THE HIGH SCHOOL CURRICULUM.—(C) Sem. 2. Cr. 3.

The program of studies is discussed with reference to the various needs of present-day life—occupational, civic, physical, cultural. Special consideration is given to extra-curricular activities. Each student makes a special study of the subject or subjects which he expects to teach. Open to juniors and seniors who have completed six hours of education.

Alternates with Education 132.

131. READING IN THE ELEMENTARY SCHOOL.—(C) Sem. 1. Cr. 2.

Aim of this course: An acquaintance with some of the best materials available for use with children. Topics: Reading in the primary grades; difficulties with words and groups of words; phonics; reading in the intermediate grades; individual differences in reading; motivation; measuring reading instruction; materials of instruction.

(Offered 1931-32)

132. THE JUNIOR HIGH SCHOOL.—(C) Sem. 2. Cr. 3.

Intended primarily for prospective teachers and principals of junior high schools. A study of the nature and functions of the junior high school; its aims; the present status of its development; its present curriculum; its courses of instruction; extra-curricular activities, and significant features of certain junior high schools.

Alternates with Education 122.

133. CLASS ORGANIZATION AND MANAGEMENT.—(C) Sem. 2. Cr. 3.

A consideration of the fundamentals of class organization and management. Special attention is given to such topics as program making, discipline, records, and other practical problems of the classroom.

(Given upon sufficient demand)

142. THE PROFESSIONAL ACADEMIC COURSE IN ELEMENTARY EDUCATION.—(C) Sem. 2. Cr. 2.

This course is administered by the Department of Education. This arrangement applies to the following professional academic courses:

Ed. 144. The Teaching of the Social Studies (History and Geography).

Eng. 118. The Teaching of Composition.

Eng. 142. The Teaching of Reading and Literature.

Math. 142. The Teaching of Arithmetic.

M. 109-110. Elementary Public School Music Methods.

M. 111-112. Appreciation of Elementary Public School Music.

144. THE TEACHING OF THE SOCIAL STUDIES IN THE ELEMENTARY SCHOOL.—(D) Cr. 2.

The subjects emphasized are history and geography. Topics: The objectives; the unique problems in the teaching of the social studies; courses of study analyzed and compared; the collection and organization of materials of instruction; methods of instruction compared; practical work in organizing materials as problems, projects, and type studies; illustrative material; the use of current events; testing the result of instruction; bibliography.

(Offered 1931-32)

151. PRINCIPLES OF TEACHING.—(D) Sem. 1. Cr. 3.

The course deals with the following general topics: The fundamental principles of teaching; a survey of important methods and types of teaching; problems of technique; class organization and management.

181-182. SUPERVISED TEACHING IN ELEMENTARY SUBJECTS.—(D) Each Sem. Cr. 3.

Open only to seniors. This course is designed for student-teachers in elementary subjects. The observation and practice work is done in the grade school under the direction of the critic teacher. At least 40 class periods of observation, 80 class periods of teaching and a weekly conference are required. At these conferences reports of school work and assigned readings are discussed. An average grade of 1.5 quality points should have been earned.

Fee required \$10.00.

(Offered 1932-33)

191. THE PROFESSIONAL ACADEMIC COURSE IN SECONDARY EDUCATION.—(D) Sem. 1. Cr. 2.

This course is administered by the Department of Education. It is usually numbered 191 in the various departments of the College of Liberal Arts. This arrangement applies to the following professional academic courses:

- Art. 191. The Teaching of Public School Art.
- Bot. 191. The Teaching of Botany.
- B. M. 191. The Teaching of Commercial Subjects.
- Chem. 191. The Teaching of Chemistry.
- Eng. 191. The Teaching of English.
- French 191. The Teaching of French.
- German 191. The Teaching of German.
- Hist. 191. The Teaching of History.
- H. E. 191. The Teaching of Home Economics.
- Latin 191. The Teaching of Latin.
- Math. 191. The Teaching of Mathematics.
- M. 109-110. Elementary Public School Music Methods.
- M. 111-112. Appreciation of Elementary Public School Music.
- M. 191-192. High School Music Methods.
- M. 193-194. Appreciation of High School Music.
- Physics 191. The Teaching of Physics.
- Pol. Sc. 191. The Teaching of Social Science.
- P. E. 191. The Teaching of Physical Education.
- P. M. 191. The Teaching of Industrial Arts.
- Zool. 191. The Teaching of Zoology.

194. SUPERVISED TEACHING IN HIGH SCHOOL SUBJECTS.—(D) Sem. 2. Cr. 3.

Open only to seniors. This course is designed for student-teachers in high school subjects. The observation and practice work is done in the high school under the direction of the critic teacher. At least 20 class periods of observation, 40 class periods of teaching, and a weekly conference are required. At these conferences reports of school work and assigned readings are discussed. An average grade of 1.5 quality points should have been earned in each of the subjects in which the student desires to be licensed.

Fee \$10.00.

RELATED COURSES IN PSYCHOLOGY

- Psychology 51. General Psychology.
 Psychology 101. Psychology of Childhood.
 Psychology 116. Psychology of Adolescence.

RELATED COURSES IN OTHER DEPARTMENTS

(Courses applying to the Curriculum in Elementary Education)

- | | | |
|---------------------|----------|--|
| Art | 127. | Drawing and Construction. |
| Botany | 140. | Local Flora. |
| Business Management | 1. | Penmanship and Spelling. |
| English | 117. | Grammar in the Elementary School. |
| English | 118. | The Teaching of Composition. |
| English | 127. | Story Telling. |
| English | 142. | The Teaching of Reading and Literature. |
| English | 148. | The History of Literature for Children. |
| English | 198. | Contemporary Drama. |
| Geology | 107. | World Geography. |
| History | 131. | United States to 1865. |
| History | 132. | United States: 1865 to Present Time. |
| Mathematics | 141. | Arithmetic in the Elementary School. |
| Mathematics | 142. | The Teaching of Arithmetic. |
| Music | 109-110. | Elementary School Music Methods. |
| Music | 111-112. | Appreciation of Elementary School Music. |
| Physical Education | 105W. | Recreational Leadership. |
| Physical Education | 171M. | Hygiene. |
| Political Science | 101. | Civics. |
| Zoology | 54. | Elementary Physiology. |
| Zoology | 140. | Birds and Insects. |

B. PSYCHOLOGY

51. GENERAL PSYCHOLOGY.—(B) Sem. 1 and 2. Cr. 3.

This course gives the student a general knowledge of the more important principles governing consciousness and behavior. The principal topics covered are instinct, habit, sensation, attention, association, perception, memory, imagination, reasoning, feeling, emotion, and will.

101. PSYCHOLOGY OF CHILDHOOD.—(C) Sem. 1. Cr. 3.

A general course in child study, devoted chiefly to the normal child. Much time is given to the discussion of the inborn tendencies, capacities, likes and dislikes, child reasoning, and general behavior of children up to the age of twelve and thirteen. Physical and mental difficulties leading to abnormal states are pointed out.

Alternates with Psychology 116.

116. PSYCHOLOGY OF ADOLESCENCE.—(C) Sem. 1. Cr. 3.

A careful study of the problems of growth, reaction, mentality, and personality in adolescence, together with some account of the applied aspects as exemplified in typical junior and senior high schools.

Alternates with Psychology 101.

(Given upon sufficient demand)

121. EXPERIMENTAL PSYCHOLOGY.—(C) Sem. 1. Cr. 3.

The work covers typical experiments in reaction, learning, perception, memory, imagery, emotions, sensation, and reasoning, together with applications of these experiments to vocational guidance, mental hygiene, and similar problems.

(Given upon sufficient demand)

RELATED COURSES IN EDUCATION

Education 52. Educational Psychology.

THE DEPARTMENT OF ENGINEERING

PROFESSOR BILGER, ASSISTANT PROFESSOR LAURITZEN, MR. BLICKENSERFER,
MR. PETERSON, MR. TROSPER, MR. UBAN

GENERAL STATEMENT

The three principal divisions of engineering are civil, mechanical, and electrical. In each of these Valparaiso University offers the standard four-year college course with the degree of Bachelor of Science in Engineering. The University also offers a four-year curriculum in Industrial Engineering which combines some division of engineering and courses in Business Management.

The instruction is designed to ground the student thoroughly in the basic principles of engineering science and to offer sufficient application to engineering problems to enable him to be of service to his employer immediately upon graduation.

ADVANTAGES

The University is only 44 miles distant from Chicago, the world's greatest railroad center and the engineering center of the United States. Valparaiso students are, therefore, within reach of engineering works of the first magnitude. These provide abundant opportunities for inspection trips, both while they are under construction and when they are in operation. However, the student at Valparaiso need not confine himself wholly to engineering, for the several other Departments of the University afford opportunities for collateral scientific work and for a wide range of cultural studies and contacts. But the particular service rendered by Valparaiso makes its strongest appeal to the young man of modest circumstances who nevertheless seeks a standard education that will equip him thoroughly for his professional success as an engineer.

OPPORTUNITIES FOR GRADUATES

Some fields of employment open to graduates in civil, mechanical, and electrical engineering are indicated as follows:

Civil Engineering graduates at once engage upon work that qualifies them as surveyors, topographical engineers, drainage and irrigation engineers, sanitary engineers, highway engineers, railway engineers, bridge engineers, structural engineers, materials testing engineers, research engineers, contractors and builders, etc. Many enter the service of the Government, as in the Geological Survey, the Coast and Geodetic Survey, the Bureau of Reclamation, the structural work of the Supervising Architect's Office, the highway work of the Bureau of Public Roads, etc.

Mechanical Engineering graduates find employment throughout a wide range of industrial and public service enterprises and in many branches of the Government. An important division in many industries is the so-called Engineering Department, where new designs are planned and developed for the industry. Within such departments are also the fields of testing, experimenting, and scientific research. Another division is that of "Manufacturing," where the paramount problem is the attainment of maximum production at minimum cost. Still other divisions are those of maintenance, improvement work, and inspection service.

Electrical Engineering graduates are engaged for the design, manufacture, operation, and testing of equipment used for the generation, transmission, and utilization of electrical energy. According to the purposes of the various lines of equipment, the engineer may choose to enter the field of communication, having to do with the telephone, telegraph, radio, etc.; or the field of transportation, dealing with the traction of common carriers by electricity; or the broad fields of research, power, public utilities, manufacture, construction, etc.

THE ENGINEERING CURRICULA

The Freshman Year for all Curricula in Engineering is Identical.

Freshman Year

<i>First Semester</i>			Class	Lab.	Cr.
Math.	51.	Mathematical Analysis	5	+ 0	5
Eng.	1.	Freshman Composition	3	+ 0	3
Chem.	51.	General Chemistry	3	+ 3	4
P. M.	1.	Engineering Drawing	0	+ 9	3
P. M.	10.	Woodshop; or 58, Machine Shop and Forge.....	0	+ 6	2

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<i>Second Semester</i>			Class	Lab.	Cr.
Math.	52.	Mathematical Analysis	5	+ 0	5
Eng.	2.	Freshman Composition	3	+ 0	3
Chem.	52.	Inorganic Chemistry	3	+ 3	4
P. M.	2.	Engineering Drawing	0	+ 9	3
P. M.	4.	Engineering Problems	0	+ 3	1
P. M.	10.	Woodshop; or 58, Machine Shop and Forge.....	0	+ 6	2

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THE CURRICULUM IN CIVIL ENGINEERING

Sophomore Year

<i>First Semester</i>			Class	Lab.	Cr.
Math.	111.	Differential Calculus	4	+ 0	4
Phys.	61.	Technical Physics	3	+ 3	4
C. E.	51.	Surveying	2	+ 6	4
Geol.	61.	Engineering Geology	3	+ 3	4

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<i>Second Semester</i>			Class	Lab.	Cr.
Math.	112.	Integral Calculus	4	+ 0	4
Phys.	62.	Technical Physics	3	+ 3	4
P. M.	51.	Descriptive Geometry	1	+ 3	2
C. E.	60.	Applied Mechanics	5	+ 0	5
		Elective	2	+ 0	2

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Junior Year

<i>First Semester</i>			Class	Lab.	Cr.
C. E.	101.	Surveying	2	+ 9	5
C. E.	107.	Curves and Earthwork (or Water Supply).....	3	+ 3	4
C. E.	120.	Graphics	0	+ 6	2
C. E.	130.	Mechanics of Materials	5	+ 0	5

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<i>Second Semester</i>			Class	Lab.	Cr.
C. E.	109.	Railroads	2	+ 6	4
C. E.	115.	Stresses	5	+ 0	5
C. E.	125.	Roads and Pavements (or Sewerage).....	3	+ 3	4
C. E.	135.	Hydraulics	2	+ 3	3
		Elective	2	+ 0	2

18

Senior Year

<i>First Semester</i>			Class	Lab.	Cr.
C. E.	151.	Masonry and Foundations	2	+ 0	2
C. E.	155.	Bridge Design	1	+ 12	5
C. E.	163.	Reinforced Concrete	3	+ 3	4
C. E.	169.	Water Supply (or Curves and Earthwork)	3	+ 0	3
M. E.	175.	Heating and Ventilating	2	+ 0	2
		Elective	2	+ 0	2

18

<i>Second Semester</i>			Class	Lab.	Cr.
C. E.	159.	Structural Design	0	+ 6	2
C. E.	164.	Reinforced Concrete	3	+ 3	4
C. E.	173.	Sewerage (or Roads and Pavements).....	3	+ 0	3
C. E.	181.	Materials Testing	0	+ 6	2
C. E.	177.*	Engineering Economics	2	+ 0	2
C. E.	185.	Contracts and Specifications	2	+ 0	2
M. E.	125.	Materials of Engineering	2	+ 0	2
		Elective	2	+ 0	2

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*Approved electives may be substituted.

THE CURRICULUM IN ELECTRICAL ENGINEERING

Sophomore Year

First Semester

			Class	Lab.	Cr.
Math.	111.	Differential Calculus	4	+ 0	4
Phys.	61.	Technical Physics	3	+ 3	4
C. E.	51.	Surveying	2	+ 6	4
M. E.	51.	Mechanisms	2	+ 3	3
E. E.	51.	Elements of Electricity	3	+ 0	3

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18*Second Semester*

			Class	Lab.	Cr.
Math.	112.	Integral Calculus	4	+ 0	4
Phys.	62.	Technical Physics	3	+ 3	4
C. E.	60.	Applied Mechanics	5	+ 0	5
E. E.	52.	Elements of Electricity	2	+ 3	3

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Junior Year

First Semester

			Class	Lab.	Cr.
Phys.	131.	Electricity and Magnetism	2	+ 6	4
C. E.	130.	Mechanics of Materials	5	+ 0	5
M. E.	101.	Thermodynamics	3	+ 0	3
E. E.	111.	D. C. Machinery	3	+ 10	3
E. E.	112.	D. C. Laboratory	0	+ 5	2

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17*Second Semester*

			Class	Lab.	Cr.
C. E.	135.	Hydraulics	2	+ 3	3
M. E.	106.	Heat Engines	5	+ 0	5
M. E.	125.*	Materials of Engineering	2	+ 0	2
E. E.	113.	D. C. Machinery	3	+ 0	3
E. E.	114.	D. C. Laboratory	0	+ 5	2
		Elective	2	+ 0	2

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17

Senior Year

First Semester

			Class	Lab.	Cr.
Phys.	111.*	Heat Laboratory	0	+ 3	1
M. E.	111.	Mechanical Laboratory	0	+ 3	1
M. E.	161.*	Factory Management	2	+ 0	2
E. E.	151.	A. C. Machinery	4	+ 0	4
E. E.	152.	A. C. Laboratory	0	+ 5	2
E. E.	167.	Radio Communication	3	+ 0	3
		Elective	2	+ 0	4

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17

*Approved electives may be substituted.

<i>Second Semester</i>			Class	Lab.	Cr.
C. E.	177.	Engineer Economics	2	+ 0	2
C. E.	181.	Materials Testing	0	+ 6	2
C. E.	185.*	Contracts and Specifications	2	+ 0	2
E. E.	154.	A. C. Laboratory	0	+ 5	2
E. E.	153.	A. C. Machinery	4	+ 0	4
E. E.	168.	Radio Communication	3	+ 0	3
		Elective	2	+ 0	2

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THE CURRICULUM IN MECHANICAL ENGINEERING

Sophomore Year

<i>First Semester</i>			Class	Lab.	Cr.
Math.	111.	Differential Calculus	4	+ 0	4
Phys.	61.	Technical Physics	3	+ 3	4
C. E.	51.	Surveying	2	+ 6	4
M. E.	51.	Mechanisms	2	+ 3	3
P. M.	61.	Foundry	0	+ 6	2

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17

<i>Second Semester</i>			Class	Lab.	Cr.
Math.	112.	Integral Calculus	4	+ 0	4
Phys.	62.	Technical Physics	3	+ 3	4
P. M.	51.	Descriptive Geometry	1	+ 3	2
P. M.	60.	Machine Shop	0	+ 6	2
C. E.	60.	Applied Mechanics	5	+ 0	5

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Junior Year

<i>First Semester</i>			Class	Lab.	Cr.
C. E.	130.	Mechanic of Materials.....	5	+ 0	5
Phys.	111.	Heat Laboratory	0	+ 3	1
M. E.	101.	Thermodynamics	3	+ 0	3
M. E.	111.	Mechanical Laboratory	0	+ 3	1
M. E.	118.	Machine Design	2	+ 6	4
E. E.	107.	Elements of Electrical Engineering	3	+ 3	4

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<i>Second Semester</i>			Class	Lab.	Cr.
C. E.	181.	Materials Testing	0	+ 6	2
M. E.	106.	Heat Engines	5	+ 0	5
M. E.	119.	Machine Design	2	+ 6	4
M. E.	125.	Materials of Engineering	2	+ 0	2
E. E.	108.	Elements of Electrical Engineering.....	3	+ 3	4

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*Approved electives may be substituted.

Senior Year

First Semester

		Class	Lab.	Cr.
M. E. 151.	Mechanical Laboratory	0	+ 6	2
M. E. 157.	Heat Power Engineering	3	+ 0	3
M. E. 161.	Factory Management	2	+ 0	2
M. E. 163.	Drawing and Design	0	+ 9	3
M. E. 175.	Heating and Ventilating	2	+ 0	2
B. M. 51.	Business Administration	3	+ 0	3
	Elective	2	+ 0	2

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17

Second Semester

		Class	Lab.	Cr.
M. E. 152.	Mechanical Laboratory	0	+ 6	2
M. E. 158.	Heat Power Engineering	3	+ 0	3
M. E. 164.	Drawing and Design	0	+ 9	3
C. E. 135.	Hydraulics	2	+ 3	3
C. E. 177.	Engineering Economics	2	+ 0	2
C. E. 185.	Contracts and Specifications	2	+ 0	2
	Elective	2	+ 0	2

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THE CURRICULUM IN COMMERCIAL ENGINEERING

(Leading to the degree of Bachelor of Science)

The curriculum in commercial engineering combines a basic technical training with a sufficient knowledge of accounting and economics to prepare a student to enter into the distinctively business phases of engineering, such as sales and the application of mechanical and electrical equipment; the operation of public utility plants; the administrative direction of commercial shops and factories; and the appraisal work of investment and bonding concerns.

The program consists of a modification of the regular curriculum in Mechanical or in Electrical Engineering, whereby courses in Economics or Business Management, such as General Economics, Accounting, Marketing, Business Finance, Business Statistics and Public Finance, are substituted for design and elective courses to the extent of 21 credit hours.

The total requirement is 138 hours in Mechanical Engineering and 140 hours in Electrical Engineering.

COURSES IN CIVIL ENGINEERING

51. SURVEYING.—(B) Sem. 1. 2+6, Cr. 4.

Field and drafting-room work with recitations, covering the fundamentals and practice of plane surveying; including the theory, adjustment, care, and use of such surveying equipment, as the measuring tape, compass, level, transit, etc.

Practice in measuring lengths, areas, angles, etc.; systematic recording of field notes; making maps, plans, profiles, cross-sections, etc., from field notes; computations with use of logarithmic and other tables.

Prerequisite: Math. 51 and P.M. 2.

Laboratory fee \$6.00; deposit \$4.00.

Blickensderfer.

60. APPLIED MECHANICS.—(B) Sem. 2. 5+0, Cr. 5.

Covering statics and kinetics. Composition and resolution of forces; principles of equilibrium of rigid bodies, commencing with the particle, with applications to machines, cranes, trusses, and other framed structures; centers of gravity and moments of inertia.

Force, mass, and acceleration; general equations of motion derived from Newton's laws; simple and compound pendulums; work, energy, impulse, momentum, impact, and friction. Practical applications of the principles are made to typical engineering problems.

Prerequisite. Math. 111 and 112, or Math. 112 concurrently with C.E. 60.

Bilger.

101. SURVEYING.—(C) Sem. 1. 2+9, Cr. 5.

Field and drafting-room work with recitations, including the theory and use of the plane table, stadia, sextant, and solar attachment to the transit, in triangulation, city surveying, topographic surveying, hydrographic surveying.

Also the application of astronomical theory to surveying in observations for determining latitude, azimuth, and time.

Prerequisite: C.E. 51.

Laboratory fee \$6.00; deposit \$4.00.

Blickensderfer.

107. CURVES AND EARTHWORK.—(C) Sem. 1. 3+3, Cr. 4.

Recitations and field work in simple, compound, and transition curves as related to railways, highways, and canals. Survey and design of a transportation line, including reconnaissance, preliminary, and location work; estimates of quantities and costs; frog and switch work.

Prerequisite: C.E. 51.

Laboratory fee \$2.00; deposit \$4.00.

Alternates with C.E. 169.

Blickensderfer.

109. RAILROADS.—(C) Sem. 2. 2+6, Cr. 4.

Principles and practice of railroad construction, maintenance, operation, and valuation; covering track, ballast, culverts, minor bridges, standard structures, tunnels, yards, terminals, etc. Also comparisons of materials for railroad use, preservative treatment of ties, and economics of railroad location as affected by balancing operating costs against grades and curvatures.

Prerequisite: C.E. 107.

Laboratory fee \$6.00; deposit \$4.00.

Blickensderfer.

115. STRESSES.—(C) Sem. 2. 5+0, Cr. 5.

The determination of reactions, moments, and shears in beams and simple trusses. Stresses in roof and bridge trusses under static and dynamic loads by the algebraic method, with some attention to the graphical method.

Prerequisite: C.E. 60.

Bilger.

120. GRAPHICS.—(C) Sem. 1. 0+6, Cr. 2.

Graphical determination of stresses in roof and bridge trusses under action of static and moving loads; stresses in cranes and similar structures; also centers of gravity and moments of inertia by graphics.

Prerequisite: C.E. 60.

Bilger.

125. ROADS AND PAVEMENTS.—(C) Sem. 2. 3+3, Cr. 4.

A study of the design, construction, and maintenance of various types of road and street wearing courses and foundations, covering plain and oiled earth, sand-clay, gravel, macadam, brick, concrete, granite block, asphalt block, wood block, and bituminous work. Particular attention is given to problems of drainage, grade, curves, width, etc. Following Government practice, complete surveys and plans are made for a specific highway improvement, and quantities and cost are estimated.

Prerequisite: C. E. 51.

Laboratory fee \$2.00; deposit \$4.00.

Alternates with C. E. 173.

(Omitted 1930-31.)

130. MECHANICS OR MATERIALS.—(C) Sem. 1. 5+0, Cr. 5.

Principles of mechanics applied to structural members and engineering materials: covering physical properties of materials; theory of homogeneous and compound beams, including simple, cantilever, fixed, and continuous types; columns; resilience and work; impact and fatigue; rollers, plates and spheres; mathematical theory of elasticity; interpretation of results of actual tests of materials; study of shapes and other products given in the steel company's hand-books.

Prerequisite: C. E. 60.

Bilger.

135. HYDRAULICS.—(C) Sem. 2. 2+3, Cr. 3.

Lectures, recitations, and laboratory work on the laws of the motion of fluids; covering flow through orifices, open channels, and weirs. Also hydrostatic pressure on dams and gates; the theory of impulse wheels, turbines, and centrifugal pumps; the fundamentals underlying hydraulic development.

Prerequisite: Math. 112.

Blickensderfer.

151. MASONRY AND FOUNDATIONS.—(D) Sem. 1. 2+0, Cr. 2.

Materials for masonry, including stone, brick, terra cotta, tile, cement, lime, sand, etc., and the methods of using them.

Foundation design; covering subterranean explorations and unit loads; pneumatic caissons for bridges and buildings; the freezing process; timber, concrete, tubular and sheet piling; cofferdams; pier foundations in open wells; ordinary bridge piers; cylinders and pivot piers; bridge abutments; spread footings for building foundations.

Blickensderfer.

155. BRIDGE DESIGN.—(D) Sem. 1. 1+12, Cr. 5.

The design of plate girder bridges and the complete design, with all computations and plans, of a railroad simple truss bridge. Computations with stresses and sections of all members, pins, pin plates, splices, etc., and connecting rivets are arranged systematically. General detail plans show location of all rivets and make-up and relation of all members and connections. Final report gives full list of shapes, plates, etc., and a classified analysis of the estimated weight of the entire structure.

Prerequisite: C. E. 115 and 120.

Bilger.

159. STRUCTURAL DESIGN.—(D) Sem. 2. 0+6, Cr. 2.

Principles and practice in the design and detail of various types of ordinary structures of wood, steel, and their combination. Covers the detailing of plate girders, the design of structural members and connections, the design of wood trusses.

Prerequisite: C. E. 115.

Bilger.

163. REINFORCED CONCRETE.—(D) Sem. 1. 3+3, Cr. 4.

Materials for concrete, including cements, aggregates and water; the mixing, placing, and curing of concrete; properties of plain concrete; theory of reinforced concrete as applied to various structural members, as columns, beams, girders, slabs, etc.; T-beams and beams reinforced for compressions; direct stress combined with flexure.

Prerequisite: C. E. 60 and C. E. 130.

Bilger.

164. REINFORCED CONCRETE.—(D) Sem. 2. 3+3, Cr. 4.

The design of retaining walls, dams, and girder bridges. Study of several types of floor, roof, and foundation construction for commercial buildings. The complete design, with working drawings and reinforcing schedules, of a reinforced concrete building, including stairway, elevator shafts, penthouses, etc.

Prerequisite: C. E. 163.

Bilger.

169. WATER SUPPLY.—(D) Sem. 1. 3+0, Cr. 3.

Sources and purity of water supplies and works for the distribution of water. Includes general hydrology, water resources of a basin, percolating waters, probable draft, flow into wells, data for designing conduits; typical structures, distributing reservoirs, network of street mains, fire protection, economics of pumped supplies, topographic maps of cities and drainage basins, and the design of a water supply system from given data.

Alternates with C. E. 107.

Blickensderfer.

173. SEWAGE.—(D) Sem. 2. 3+0, Cr. 3.

The principles and practice in the design and construction of storm, sanitary, and combined systems of sewers; sewage treatment and disposal, with construction problems on the details of plants for the same; hydraulic problems, involving study of rain-fall, run-off, laws of flow, etc.; study of materials and methods of construction, specifications, and estimates of cost; the design of a small system for storm water and sanitary drainage, including house connections.

Alternates with C. E. 125.

Blickensderfer.

177. ENGINEERING ECONOMICS.—(D) Sem. 2. 2+0, Cr. 2.

A study of the fundamental principles of economics and their application to engineering structures and operations. Includes analyses of the problems of investment and first cost; interest on money; business units, as the sole proprietor, the partnership, the corporation; business statistics, as financial statements, cost keeping, comparisons; depreciation; theories of valuation; engineering reports.

Blickensderfer.

181. MATERIALS TESTING.—(D) Sem. 2. 0+6, Cr. 2.

Study of theory, construction, and use of testing machines and the methods of commercial testing; determination of the properties of construction materials by mechanical tests, covering tensile, compressive, shearing, torsional, and flexure tests of metal and various tests of wood, all with stress-strain observations; tests of cement, concrete aggregate, plain and reinforced concrete. The effect of heat upon metals is investigated and the S. A. E. specifications are studied.

Prerequisite: M. E. 125 and C. E. 130.

Laboratory fee \$6.00; deposit \$4.00.

Uban.

183. CONTRACTS AND SPECIFICATIONS.—(D) Sem. 2. 2+0, Cr. 2.

Legal, contractual, and personal engineering relations; development of contract principles; preparation of engineering contracts; general conditions clauses, as extras, alterations, time limit, payment, etc.; interpretation of specifications; practice in writing specifications and reports; acquisition and conveyance of land; property rights defined by boundaries.

Blickensderfer.

COURSES IN ELECTRICAL ENGINEERING

51. ELEMENTS OF ELECTRICITY.—(B) Sem. 1. 3+0, Cr. 3.

An elementary course in electricity introducing fundamental laws and principles; also units, instruments, induction, resistance and capacity.

Prerequisite: Taken concurrently with Math. 111, and Physics 61.

Peterson.

52. ELEMENTS OF ELECTRICITY.—(B) Sem. 2. 2+3, Cr. 3.

A continuation of course 51. Includes laboratory work on the manipulation of electrical apparatus, and instruments; the practical application of theory and the study of safety methods.

Prerequisite: E.E. 51.

Laboratory fee \$2.00; deposit \$4.00.

Peterson.

107. ELEMENTS OF ELECTRICAL ENGINEERING.—(C) Sem. 1. 3+3, Cr. 4.

A general course in the study of electric machinery and power, direct current apparatus, generation, measurement and application of electric power. Experimental work on direct circuits, including the use and calibration of instruments and the testing of direct current apparatus. Course is offered to nonelectrical engineering students.

Prerequisite: Physics 62.

Laboratory fee \$4.00; deposit \$4.00.

Peterson.

108. ELEMENTS OF ELECTRICAL ENGINEERING.—(C) Sem. 2. 3+3, Cr. 4.

A continuation of course 107, with special emphasis on alternating current apparatus and circuits.

Prerequisite: E.E. 107. Math. 112, required concurrently.

Laboratory fee \$4.00; deposit \$4.00.

Peterson.

111. DIRECT CURRENT MACHINERY.—(C) Sem. 1. 3+0, Cr. 3.

A course for junior electrical engineers including the theory of dynamo electric machinery. Characteristic curves, parallel operation, operating characteristics, theory of commutation, rating, and efficiency.

Prerequisite: E.E. 51.

Lauritzen.

112. D.C. LABORATORY.—(C) Sem. 1. 0+5, Cr. 2.
 A laboratory course to be taken with E.E. 111. The testing, operating characteristics, and rating of direct current apparatus.
Laboratory fee \$6.00; deposit \$4.00.
113. DIRECT CURRENT MACHINERY.—(C) Sem. 2. 3+0, Cr. 3.
 A continuation of E.E. 111.
 Prerequisite: E.E. 111. Lauritzen.
114. D.C. LABORATORY.—(C) Sem. 2. 0+5, Cr. 2.
 A continuation of E.E. 112.
 Prerequisite: E.E. 111 and 112.
Laboratory fee \$6.00; deposit \$4.00. Lauritzen.
151. ALTERNATING CURRENT MACHINERY.—(D) Sem. 1. 4+0, Cr. 4.
 A course for senior electrical engineers including the study of alternating current circuits and machinery. The application of mathematics and graphics to alternating current circuits. Transient and high frequency phenomena. Hysteresis and eddy currents. Measurement of alternating current quantities. Transformers, induction motors, and synchronous machines.
Lauritzen.
152. A.C. LABORATORY.—(D) Sem. 1. 0+5, Cr. 2.
 A laboratory course to be taken with E.E. 151. The testing of alternating current circuits and apparatus. Operating and efficiency tests of transformers and alternating current machinery.
Laboratory fee \$6.00; deposit \$4.00. Peterson.
153. ALTERNATING CURRENT MACHINERY.—(D) Sem. 2. 4+0, Cr. 4.
 A continuation of E.E. 151.
 Prerequisite: E.E. 151. Lauritzen.
154. A.C. LABORATORY.—(D) Sem. 2. 0+5, Cr. 2.
 A continuation of E.E. 152.
 Prerequisite: E.E. 152.
Laboratory fee \$6.00; deposit \$4.00. Peterson.
- 165-166. ELECTRIC MACHINE DESIGN.—(D) Yr. Each semester. 0+6, Cr. 2.
 The design of direct current generators and motors, and alternating current transformers, generators, and synchronous machines.
 Prerequisite: E.E. 113.
 (Omitted 1930-31.)
167. RADIO COMMUNICATION.—(D) Sem. 1. 3+0, Cr. 3.
 The fundamental principles of radio telegraphy and radio telephony, with a study of the construction and operation of radio apparatus.
 Prerequisite: Senior standing in E.E. or M.E. Lauritzen.
168. RADIO COMMUNICATION.—(D) Sem. 2. 3+0, Cr. 3.
 Continuation of E.E. 167. Lauritzen.

COURSES IN MECHANICAL ENGINEERING

51. MECHANISMS.—(B) Sem. 1. 2+3, Cr. 3.

A study of the various elemental mechanisms used in machine construction; including instant centers, velocity and velocity diagrams, parallel and straight line motions, belt and pulley layouts, and the design of cams and gears.

Trosper.

101. THERMODYNAMICS.—(C). Sem. 1. 3+0, Cr. 3.

The theory of gases with their behavior and laws. Special emphasis is placed on steam tables, the characteristics of steam and of other gases used for power purposes. A study is made of their practical applications.

Prerequisite: Math. 112.

Trosper.

106. HEAT ENGINES.—(C) Sem. 2. 5+0, Cr. 5.

Covers the various types of steam and internal combustion engines and the boiler and gas producers used for their power. The theory, operation, efficiency, and auxiliary equipment are considered and some direct observations are made.

Prerequisite: M.E. 101.

Trosper.

111. MECHANICAL LABORATORY.—(C) Sem. 1. 0+3, Cr. 1.

Elementary tests of mechanical equipment; including lubricators, bearings, oils, friction tests, fuel tests, and the calibration of thermometers, gauges, indicators, and calorimeters.

Laboratory fee \$6.00; deposit \$4.00.

Uban.

118. MACHINE DESIGN.—(C) Sem. 1. 2+6, Cr. 4.

Consists of two hours recitation a week on the theory of design of machine parts, and six hours drafting roof practice in applying basic principles in the design of typical machines such as punches and pumps.

Prerequisite: M.E. 51.

Trosper.

119. MACHINE DESIGN.—(C) Sem. 2. 2+6, Cr. 4.

This is a continuation of M.E. 118, and upon its completion embraces the theory, computations, details, and assembly drawings of the machines studied.

Trosper.

125. MATERIALS OF ENGINEERING.—(C) Sem. 2. 2+0, Cr. 2.

A study of ferrous and non-ferrous metals, alloys, and other materials commonly used in engineering; including cement, sand, stone, concrete, brick, terra cotta, etc.

This course is given in conjunction with C.E. 181.

Uban.

151. MECHANICAL LABORATORY.—(D) Sem. 1. 0+6, Cr. 2.

An experimental study of the simple slide valve steam engine, valve setting, pumps, blowers, flue gas analysis, dynamometers, gasoline engines, carburetors, and heating plants.

Laboratory fee \$6.00; deposit \$4.00.

Uban.

152. MECHANICAL LABORATORY.—(D) Sem. 2. 0+6, Cr. 2.
Tests of boilers, condensers, feed-water heaters, plants for refrigeration, pumping, and power; turbines and steam, oil, and gas engines.
Laboratory fee \$6.00; deposit \$4.00. Uban.
157. HEAT POWER ENGINEERING.—(D) Sem. 1. 3+0, Cr. 3.
A study of the theory and design of heat engines and power plant equipment. Trosper.
158. HEAT POWER ENGINEERING.—(D) Sem. 2. 3+0, Cr. 3.
This is a continuation of M.E. 157. Trosper.
161. FACTORY MANAGEMENT.—(D) Sem. 1. 2+0, Cr. 2.
Organization and lay-out; selection, placement, and wage payment of laborers; scientific management in production. Trosper.
163. DRAWING AND DESIGN.—(D) Sem. 1. 0+9, Cr. 3.
Given in conjunction with M.E. 157 and covers the design and detailing of either steam or internal combustion engine to satisfy given specifications. Trosper.
164. DRAWING AND DESIGN.—(D) Sem. 2. 0+9, Cr. 3.
The completion of M.E. 163. When time permits it includes a preliminary layout of associated problems. Trosper.
175. HEATING AND VENTILATING.—(D) Sem. 1. 2+0, Cr. 2.
A study of methods of heating and ventilating residences, public buildings, and industrial plants. The ventilation of tunnels, shafts, and mines receives some attention. During the last few weeks a small heating and ventilating plant is designed. Uban.

COURSES IN PRACTICAL MECHANICS

1. ENGINEERING DRAWING.—(A) Sem. 1. 0+9, Cr. 3.
Lettering, care and use of instruments, principles of orthographic projection, common engineering geometry, working drawings, special sections, common fasteners, tracing and duplicating. Peterson.
2. ENGINEERING DRAWING.—(A) Sem. 2. 0+9, Cr. 3.
Shop sketching, pictorial representation including isometric, cabinet and perspective drawing, platting graphs, topographical maps, simple lay-out of structural steel, electrical symbols and architectural conventions. Peterson.
4. ENGINEERING PROBLEMS.—(A) Sem. 2. 0+3, Cr. 1.
Typical elementary problems from various fields to suggest to the student the nature and scope of engineering work. Lectures and problems are designed principally for an orientation course. Blickensderfer.
10. WOOD SHOP.—(A) Sem. 1 or 2. 0+6, Cr. 2.
Care and use of wood-working tools and machinery; with practice in the essentials of form work for simple concrete jobs, common scaffolding and frames, cribbing, roof and bridge trusses and the elements of pattern making.
Laboratory fee \$6.00; deposit \$4.00. Trosper.

51. DESCRIPTIVE GEOMETRY.—(B) Sem. 2. 1+3, Cr. 2.

A study of points, lines, and planes in space including intersection of solids, development of surfaces and the principles of shades and shadows. Emphasis is placed on the solution of practical problems involving the theory covered.

Prerequisite: P.M. 2.

Uban

56. CABINET MAKING.—(B) Sem. 1 or 2. 0+9, Cr. 3.

Construction of common cabinet projects; including framing, case work and finishing. The methods of both hand work and mill work are considered an integral part of the course.

Laboratory fee \$6.00; deposit \$4.00.

Trosper.

58. MACHINE SHOP AND FORGE.—(B) Sem. 1 and 2. 0+6, Cr. 2.

Hand working of metals. Care and operation of common machine tools, as drill presses, lathes, shapers, millers, grinders and saws. Sample forging, welding and heat treating.

Laboratory fee \$6.00; deposit \$4.00.

Uban.

59. FARM MECHANICS.—(B) Sem. 2. 0+9, Cr. 3.

Covers the manipulation of common farm hand tools and furnishes practice in making small equipment such as hog feeders, sprouters, gates, corn testers, and roofs. Includes soldering, welding, rope splicing, harness repairing, machine repair, the operation of gas engines, and the running of levels for farm drainage.

Laboratory fee \$6.00; deposit \$4.00.

(Omitted 1930-31.)

60. MACHINE SHOP.—(B) Sem. 2. 0+6, Cr. 2.

Elements of machine and tool making with the necessary auxiliary work in hardening, tempering, drawing, and punch press performance.

Prerequisite: P.M. 58.

Laboratory fee \$6.00; deposit \$4.00.

Uban.

61. FOUNDRY.—(B) Sem. 1 or 2. 0+6, Cr. 2.

The making of bench and floor moulds, green and baked sand cores, aluminum and brass furnace practice and operation. Cupola practice for cast iron with the determination of charges and the composition of the resulting castings.

Laboratory fee \$6.00; deposit \$4.00.

Fuller.

75. PRACTICAL EXPERIENCE IN AN INDUSTRIAL ORGANIZATION.—(B) Cr. 1.

Not less than six weeks of work, performed outside the University, in a shop with a well-developed system of methods pertaining to the manufacture, building, or making general repairs of machinery, machine parts, or metal products. Application must be made upon a form furnished by the adviser, and accompanied by credentials stating the length of service, kind of work, and any other pertinent information necessary to the granting of this credit. This work may be taken any time during the four years.

77. PRACTICAL EXPERIENCE IN CARPENTRY, DRAFTING, OR ELECTRICITY.—(B) Cr. 1.

The same provisions as in Practical Mechanics 75 must be observed with reference to carpentry, drafting, or electricity.

106. PATTERN MAKING.—(C) 0+9, Cr. 3.

A course illustrating the following pattern allowances: draft shrinkage, finish warp and shake. Patterns are made illustrating: core prints and core boxes; green sand, vertical, horizontal, and irregular coreing; split, segment, loose-piece, and modeling work.

Laboratory fee \$6.00; deposit \$4.00.

(Offered 1931-32.)

107. WOOD TURNING.—(C) 1+3 or 6, Cr. 2 or 3.

A study of the historical development of the lathe; thorough drill in the cutting action of turning tools and methods of holding them; projects in spindle, face plate, chuck and mandrel turning, finishing and polishing.

Laboratory fee \$6.00; deposit \$4.00.

(Offered 1931-32.)

108. FURNITURE CONSTRUCTION.—(C) 1+6, Cr. 3.

Principles of construction and processes of execution. The values of turning, carving, and other decorative features. The study of native and foreign cabinet woods and appropriate selection for different uses. Students will buy necessary material.

(Offered 1931-32.)

109. MILL WORK.—(C) 1+6, Cr. 3.

Making of sash, door, window frames, interior trim.

Prerequisite: P.M. 10.

Alternates P.M. 158.

(Offered 1931-32.)

113. FURNITURE DRAWING.—(C) Sem. 1. 0+6, Cr. 2.

The fundamental principles governing the design of furniture. Covers the styles, general construction features, and details of the various pieces of different periods.

(Offered 1931-32.)

131-132. ADVANCED MACHINE WORK.—(C) Yr. Each semester. 1+3, Cr. 2.

Lathe work in various metals, shaping, drill press work, assembling.

Laboratory fee \$6.00; deposit \$4.00.

(Offered 1931-32.)

151-152. TOOLS, JIGS, AND FIXTURES.—(D) Yr. Each semester. 1+3, Cr. 2.

Laboratory fee \$6.00; deposit \$4.00.

(Offered 1931-32.)

156. CARPENTRY.—(D) 1+6, Cr. 3.

A course in planning, designing and erecting buildings, such as garages, or small houses. Making estimates on labor and material. Methods of constructing frame buildings and applying interior trim. Methods of applying builders' hardware. Stairwork and roof construction.

(Offered 1932-33.)

157. ADVANCED PATTERNMAKING.—(D) 0+9, Cr. 3.

Patterns for the following kinds of castings: pipe fittings, pulleys, valves and gear wheels. Board mounts and such special patterns as are required in the machine shop.

Prerequisite: P.M. 106.

Laboratory fee \$6.00; deposit \$4.00.

(Offered 1932-33.)

158. MACHINE CABINET WORK.—(D) 0+9, Cr. 3.

A course involving furniture construction by the use of machinery. Both built-in and regular furniture is considered. Students are expected to make projects for themselves.

Prerequisite: P.M. 10.

Alternates with P.M. 109.

(Offered 1932-33.)

191. THE TEACHING OF INDUSTRIAL ARTS.—(D) Sem. 1 or 2. Cr. 2.

A teacher's course. A comparative analysis of the methods for teaching industrial arts, as developed from theory and practice. Organization and administration of Industrial Arts.

(Given upon sufficient demand.)

INDUSTRIAL ARTS

The aim is, in view of the growth of the industries in particular in Northern Indiana, to supply the increasing demand for teachers of trade and industrial subjects in high schools. Valparaiso University has the facilities for the training of teachers in certain industrial and trade subjects, such as machine shop, wood shop, electricity, and drafting.

The curriculum in Industrial Arts leads to the degree of Bachelor of Science. One hundred and forty credit hours are required in Drafting, Electrical Work, and Machine Shop. One hundred and twenty-four credit hours are required in Wood Working. The courses of this curriculum are those commonly listed under Engineering and Industrial Arts. Upon completion of the preparatory program of Industrial Arts, in the freshman and sophomore years, the student is expected to concentrate during his junior and senior years in a selected field, either in Drafting, Electrical Work, Machine Shop, or Wood Working.

PREPARATION IN INDUSTRIAL ARTS FOR DRAFTING AND MACHINE SHOP

Freshman Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
Eng.	1. Freshman Composition	3	Eng.	2. Freshman Composition	3
Hist.	51. Medieval Europe	3	Math.	52. Mathematical Analysis	5
Math.	51. Mathematical Analysis	5	P.M.	2. Engineering Drawing	3
P.M.	1. Engineering Drawing	3	P.M.	51. Descriptive Geometry	2
P.M.	10. Wood Shop	2	P.M.	58. Machine Shop and Forge . .	2
P.E.	3. Individual Health Program. ½		P.E.	4. Individual Health Program. ½	
P.E.	1. Sports and Gymnastics. . . . ½		P.E.	2. Sports and Gymnastics. . . . ½	
		17			16

Sophomore Year

<i>First Semester</i>		<i>Cr.</i>	<i>Second Semester</i>		<i>Cr.</i>
Psych.	51. General Psychology	3	Ed.	52. Educational Psychology ...	3
Phys.	61. Technical Physics	4	Phys.	62. Technical Physics	4
Math.	111. Differential Calculus	4	Math.	112. Integral Calculus	4
P.M.	60. Machine Shop	2	C.E.	60. Applied Mechanics	5
M.E.	51. Mechanisms	3	P.E.	52. Survey of Sports.....	0
P.E.	51. Survey of Sports	0	Elective		3-4
Elective		3-4			
		<hr/>			<hr/>
		19-20			19-20

Major: 36 credit hours in Drafting and Machine Shop, exclusive of P. M. 1, 2, 10, 51, 58, 60.

Major in Drafting—C. E. 60, M. E. 51, P. M. 77, and the following courses, in the first semester of the junior year: C. E. 130, M. E. 101, Art 51; in the second semester of the junior year: M. E. 106, P. M. 61, Art 52; in the first semester of the senior year: M. E. 111, 118, Art 59, 60; and in the second semester of the senior year: M. E. 119, Art 67, 68.

Major in Machine Shop—C. E. 60, M. E. 51, P. M. 75, and the following courses, in the first semester of the junior year: C. E. 130, M. E. 101, P. M. 131, Art 51; in the second semester of the junior year: M. E. 106, P. M. 61, 132, Art 52; in the first semester of the senior year: M. E. 111, P. M. 151, Art 59, 60; and in the second semester of the senior year: P. M. 152, Art 67, 68.

PREPARATION IN INDUSTRIAL ARTS FOR ELECTRICAL WORK AND WOOD WORKING

Freshman Year

Same as Preparation in Industrial Arts for Drafting and Machine Shop.

Sophomore Year

<i>First Semester</i>		<i>Cr.</i>	<i>Second Semester</i>		<i>Cr.</i>
Psych.	51. General Psychology	3	Ed.	52. Educational Psychology ...	3
Phys.	61. Technical Physics	4	Phys.	62. Technical Physics	4
Math.	111. Differential Calculus	4	Math.	112. Integral Calculus	4
E.E.	51. Elements of Electricity....	3	E.E.	52. Elements of Electricity....	3
P.E.	51. Survey of Sports.....	0	P.E.	52. Survey of Sports.....	0
Elective		3-4	Elective		3-4
		<hr/>			<hr/>
		17-18			17-18

Major in Electrical Work, 34 credit hours, exclusive of P. M. 1, 2, 10, 51, 58, 61, that is, P. M. 77 and the following courses in Electrical Engineering in the junior and senior years: 51, 52, 111, 112, 113, 114, 151, 152, 153, 154, 167, 168.

Major in Wood Working, 24 credit hours, exclusive of P. M. 1, 2, 10, 51, 58, 61, that is, P. M. 56, 77, 106, 107, 108, 109, 113, 156, 157, 158; Art 51, 52, 59, 60, 67, 68.

THE DEPARTMENT OF ENGLISH LANGUAGE AND LITERATURE

PROFESSOR ROBINSON, ASSISTANT PROFESSOR DICKSON, MR. MORROW, MRS. SCHWEPPE

Majors: A major consists of a minimum of twenty-four credit hours, exclusive of English 1 and 2, 51 and 52.

General Major: The courses selected for a general major should be distributed as follows:

(1) Composition: Cr. 6, to be chosen from English 61, 62, 124, 131, 132, 138, 143, 144.

(2) English Literature: Cr. 9, to be chosen from English, 51, 52, 111, 116, 125, 126, 163, 166, 167, 170, 171, 173, 175, 195, 196, 198.

(3) American Literature: Cr. 6, to be chosen from English 122, 128, 157, 165.

(4) Oral Expression: Cr. 6, to be chosen from English 101, 102, 103, 104.

Major in English Literature: Students majoring in English Literature are advised to include English History among their electives and to acquire a reading knowledge of a foreign language.

Major in Preparation for Journalism: For the three-year program preparing for Journalism the student should complete the freshman and sophomore constants and select courses from the following groups: English 51, 52, 61, 62, 125, 126, 124, 131, 132, 165, 167, 170; History 51, 52, 111, 112, 131, 132, 133; Economics 51, 52, 101, 151; Political Science 51, 52, 105, 106, 147; Sociology 51, 52; Philosophy 51, 52, 101, 122; Psychology 51.

This work must total at least 90 credits.

Major in Public Speaking: Students majoring in Public Speaking will be required to take the following courses: 101, 102, 103, 104, 105, 106, 107, 108; English 198; and may elect four additional credits from Public Speaking 109, 110, 112; English 125, 126, 163, 165, 166, 175.

Major in Preparation for Library Science: Students who intend to apply for admission to an approved library school on the completion of their college work, should select their basis courses from the following groups: English Literature, Speech, Modern Languages, Latin, History, Economics, Political Science, Sociology, Psychology, Philosophy, Education, and one or more of the following sciences: Botany, Geology, Zoology, Physics, Chemistry.

Minor: A minor consists of twelve credit hours, exclusive of English 1 and 2, 51 and 52.

The Three-year Pre-Legal Program: In this program the freshman and sophomore constants, a major in English, and sufficient electives to total at least 93 credits at the end of the junior year are needed.

COURSES IN COMPOSITION

1. FRESHMAN COMPOSITION.—(A) Sem. 1. Cr. 3.

A study and practice of good writing, with emphasis on exposition. Short and long themes, collateral reading, conferences. Required of all students. Dickson.

2. FRESHMAN COMPOSITION.—(A) Sem. 2. Cr. 3.

Continuation of English 1.

Prerequisite: English 1.

Dickson.

61. EXPOSITION.—(B) Sem. 1. Cr. 2.

A study of the principles of expository writing. Themes and conferences.
Prerequisite: English 2.

Dickson.

62. NARRATION.—(B) Sem. 2. Cr. 2.

A study of the plot, characterization, and setting in the modern novel and short story. Themes and conferences.

Prerequisite: English 2.

Alternates successively with English 124 and 134.

Dickson.

117. GRAMMAR IN THE ELEMENTARY SCHOOLS.—(C) Sem. 1. Cr. 2.

A survey of elementary school English from the viewpoint of grammar. Topics: Aims; various conceptions of grammar as a school subject; functions of a formal analysis of language; the reduction of grammar to its indispensable features; grammar and thinking; grammar and rhetoric; the relations of grammar to composition and to literature; objective testing; text books, old and new.

(Offered 1931-32.)

118. THE TEACHING OF COMPOSITION IN THE ELEMENTARY SCHOOL.—(C) Sem. 2. Cr. 2.

A survey of principles and materials. Topics: Objectives; the relationships of speech, writing, and reading; the technique of stimulating and guiding pupils to careful self-expression; the development of specific desirable attitudes and habits in the use of language; pronunciation, enunciation, intonation; teaching the organization of discourse; dramatizing; functional grammar; punctuation; capitalization.

(Offered 1931-32.)

124. SHORT STORY WRITING.—(C) Sem. 2. Cr. 2.

A study of narrative and descriptive prose and the art of modern prose fiction. The short story is selected for discussion and practice.

Alternates successively with English 62 and 134.

(Omitted 1930-31.)

131-132. JOURNALISM.—(C) Yr. Each semester. Cr. 2.

An introduction to the principles of news-writing. Study of newspaper organization and methods. One lecture and one three-hour laboratory period each week. All written work is done on the typewriter. Work on the "Torch" with weekly conferences. Required of all members of the "Torch" staff.

Prerequisite: English 1 and 2.

Robinson.

133-134. ADVANCED JOURNALISM.—(C) Yr. Each semester. Cr. 2.

A course designed to meet the needs of students wishing advanced work in journalism. Credit may be obtained in Editorial Writing, Advertising, or History of Journalism in the United States according to the demands of the class.

Prerequisite: English 131-132.

(Omitted 1930-31.)

138. WRITING OF THE ONE-ACT PLAY.—(C) Sem. 2. Cr. 2.

A study of the technique of the one-act play combined with practice in writing

Alternates successively with English 62 and 124.

(Omitted 1930-31.)

143. CREATIVE VERSE WRITING.—(C) Sem. 1. Cr. 2.

By special permission of instructor. A study of poetic types concreted on Amy Lowell, E. A. Robinson, Robert Frost, J. G. Neihardt, Carl Sandburg, Sara Teasdale, and Edna St. Vincent Millay. The study of modern tendencies in poetry writing with practice in creative verse writing.

Dickson.

144. CREATIVE VERSE WRITING.—(C) Sem. 2. Cr. 1.

Continuation of English 143.

Prerequisite: English 143.

Dickson.

COURSES IN LITERATURE

51-52. SURVEY OF ENGLISH LITERATURE.—(B) Yr. Each semester. Cr. 2 or 3.

A survey of English Literature from Beowulf to the close of the 19th Century with emphasis on the significant writers and movements. A part of the Sophomore Constant. Required of students majoring in English.

Dickson and Robinson.

111. CARLYLE AND RUSKIN.—(C) Sem. 2. Cr. 3.

A critical study of the works of masters of modern English prose: Hazlitt, Macaulay, Lamb, De Quincy, Arnold, Newman and Stevenson, with special emphasis on Carlyle and Ruskin.

Alternates with English 116.

Robinson.

116. TENNYSON AND BROWNING.—(C) Sem. 2. Cr. 3.

A study of the poets from Wordsworth to Tennyson with emphasis on Tennyson and Browning.

Alternates with English 111.

(Omitted 1930-31.)

122. AMERICAN POETRY.—(C) Sem. 1. Cr. 2.

A study of American poets as they express American thought.

(Omitted 1930-31.)

125. SHAKESPEARE.—(C) Sem. 1. Cr. 3.

Analysis of the literary and dramatic art of Shakespeare's plays, with some consideration of his age and his development as a playwright. Lectures and discussion.

Alternates with English 163.

Robinson.

126. SHAKESPEARE.—(C) Sem. 2. Cr. 3.

Continuation of English 125.

Prerequisite: English 125.

Alternates with English 166.

Robinson.

128. EMERSON.—(C) Sem. 2. Cr. 2.

A study of Emerson and his school. His influence on American thought and literature. Special emphasis will be placed upon Emerson's writings and lectures.

Alternates with English 165.

(Omitted 1930-31.)

142. THE TEACHING OF READING AND LITERATURE IN THE ELEMENTARY SCHOOL.—(C) Sem. 2. Cr. 2.

A survey of the principles and materials. Topics: The objectives of reading in school; oral and silent reading; supplementary reading; various standard series of books; elements desirable in books for children; grading of content; the physical make-up of books; technique of utilizing illustrations; teaching the elements of appreciation; dramatizing; testing of attainment; diagnostic and remedial work; reference books for young readers.

(Offered 1931-32.)

148. THE HISTORY OF LITERATURE FOR CHILDREN.—(C) Sem. 2. Cr. 2.

An historical study of literature addressed particularly to children, from the earliest times to the present. Notable writers and publishers. Characteristics of subject matter, of literary style, and of form of publication. Illustrators and illustrations.

(Offered 1932-33.)

157. SURVEY OF AMERICAN LITERATURE.—(C) Sem. 2. Cr. 2.

A survey of American literature, tracing its development in relation to national conditions and thought. Text, lectures, and reports.

(Omitted 1930-31.)

163. ELIZABETHAN DRAMA.—(D) Sem. 1. Cr. 3.

History of the Elizabethan drama to 1642; study of the works of the chief dramatists from Lyly to Shirley.

Alternates with English 125.

(Omitted 1930-31.)

165. THE AMERICAN DRAMA.—(D) Sem. Cr. 2.

The development of American drama with special emphasis on its present-day tendencies.

Alternates with English 128.

Dickson.

166. THE MODERN ENGLISH DRAMA.—(D) Sem. 2. Cr. 2.

The development of English drama during the last fifty years, with a consideration of the foreign dramatists who have influenced it.

Alternates with English 126.

(Omitted 1930-31.)

167. THE NOVEL.—(D) Sem. 1. Cr. 3.

A study of some of the chief novelists of the past century from Jane Austin to the present. This course is designed to study the novel as an interpretation of life.

Alternates with English 170.

(Omitted 1930-31.)

170. SPENSER TO MILTON.—(D) Sem. 2. Cr. 3.
Critical study of the authors, exclusive of the dramatists. Milton's works and their influence on education, history, and religious, political and personal liberty will receive special attention.
Alternates with English 167.
(Omitted 1930-31.)
171. MASTERPIECES OF WORLD LITERATURE.—(D) Sem. 2. Cr. 2.
A study of typical masterpieces of world literature.
Alternates successively with English 173 and 175.
(Omitted 1930-31.)
173. THE BIBLE AS LITERATURE.—(D) Sem. 2. Cr. 2.
This course is to present the Bible as a great piece of literature. A study of the aesthetic power of the various literary forms found in it.
Alternates successively with English 171 and 175.
(Omitted 1930-31.)
175. CLASSICAL DRAMA IN ENGLISH TRANSLATION.—(D) Sem. 2.
Cr. 2.
A study of typical masterpieces of classical drama in English translation.
Alternates successively with English 171 and 173.
Robinson.
191. THE TEACHING OF ENGLISH.—(D) Sem. 1. Cr. 2.
A study of high school methods and high school problems in the teaching of English. Course specially designed for seniors majoring in English and planning to teach it in the high school. Text book, lectures, reports.
Prerequisite: Eighteen credits of major.
Robinson.
195. THE ROMANTIC MOVEMENT.—(D) Sem. 1. Cr. 3.
The rise and development of the romantic movement, the major emphasis being placed on the romantic triumph in the age of Wordsworth. Special attention given to Wordsworth, Coleridge, Byron, Keats, Shelley, and other writers of the age of Wordsworth.
Alternates successively with 196 and 198.
(Omitted 1930-31.)
196. THE AGE OF CLASSICISM.—(D) Sem. 1. Cr. 3.
An analysis of what constitutes "classicism," emphasis being placed on the major writers of the age of Dryden and the age of Pope.
Alternates successively with 195 and 198.
(Omitted 1930-31.)
198. CONTEMPORARY LITERATURE.—(D) Sem. 2. Cr. 3.
A survey course in contemporary or present-day literature. Special emphasis will be placed on the drama.
Alternates with English 195-196.
Robinson.

COURSES IN PUBLIC SPEAKING

MR. MORROW

The courses offered are of practical value to all students. They aim to develop accuracy of thought and speech.

53. FUNDAMENTALS OF SPEECH.—(B) Sem. 1. Cr. 1.

Study of the theory and the fundamentals of speech; selection of a topic; its analysis; study of delivery; development of thinking; organization of a speech. Part of the Sophomore constant.

Prerequisite: English 2, or the equivalent.

54. FUNDAMENTALS OF SPEECH.—(B) Sem. 2. 0+2, Cr. 1.

A continuation of Speech 53. Practice of the theory studied in 53. Oral reading; memorized speeches; extemporaneous speaking; writing of speeches; practice in delivery. A part of the Sophomore constant.

Prerequisite: Speech 53.

101. PUBLIC SPEAKING.—(C) Sem. 1. Cr. 3.

The study and practice of the theory of speech; development of voice; methods of presentation; development of thinking; organization of a speech; analysis of a topic; outlining the speech; psychological effects of speech mechanics; gestures and bodily movement in relation to emphasis.

Prerequisite: English 2, or the equivalent.

102. PUBLIC SPEAKING.—(C) Sem. 2, 2+3, Cr. 3.

Practice in delivering the different types of speeches studied in 101.

Writing of speeches; oral reading; parliamentary procedure; the after-dinner speech; the memorized speech; extemporaneous speaking; platform manners. Requires appearance before public gatherings as a speaker.

Prerequisite: Speech 101.

Fee required.

103. ARGUMENTATION.—(C) Sem. 1. Cr. 3.

A course of special value to prospective debaters and pre-law students. Intensive study of analysis, evidence, kinds of argument and fallacies; bibliography; brief drawing; refutation and rebuttal. Prepares for Speech 104.

Prerequisite: English 2, or the equivalent.

104. DEBATE SEMINAR.—(C) Sem. 2. 0+3, Cr. 1.

Intensive study of the league debate question. Study of the art of debate. Designed especially to prepare for formal debate. Requires appearance in debate before an audience.

105-106. THE CONDUCT OF DRAMATICS IN THE HIGH SCHOOL.—(C)

Yr. Each semester. 2+3, Cr. 3.

A study of plays for amateur production, stage technique, scenery building, stage lighting, costuming and makeup, drapery, advertising the amateur play, selecting the cast, directing of plays, the amateur on the road. Required for an English teaching major.

Prerequisite: English 2, or the equivalent.

Fee required.

107. ADVANCED PUBLIC SPEAKING.—(D) Sem. 1. 1+3, Cr. 2.

Intensive study of oral interpretation. Dramatic and humorous reading, oratory, acting and practical speaking. Frequent public appearance required.

Prerequisite: Speech 53, 54 or 101, 103.

108. ADVANCED PUBLIC SPEAKING.—(D) Sem. 2. 1+3, Cr. 2.

Continuation of speech 107. Recital required.

Prerequisite: Speech 107.

109-110. ORATORY.—(C) Yr. Each semester. Cr. 1.

The writing and delivering of orations. A course designed to prepare for participation in the State Oratorical Contest, the Peace Oratorical Contest and the National Inter-Collegiate Oratorical Contest. Admission to this class only upon written permission of the instructor.

112. VOCALIZATION AND BREATHING.—(C) Sem. 1 or 2. Cr. 1.

Exercises in correct breathing and in the proper enunciation and articulation of words. A course that is helpful in increasing one's efficiency in public speaking.

Fee required.

Mrs. Schweppe.

123. STORY-TELLING.—(C) Sem. 1. Cr. 2.

Of value to elementary school teachers and to all teachers who deal with children in supplementary capacities—in Sunday schools, in social centers, and in hospitals.

A considerable stock of stories is mastered, of a wide range of appeal, among them fairy stories, stories of primitive people and pioneer life, Bible stories. Topics: Objectives; general principles; special technique to suit different ages; story-telling, silent reading, and motion pictures—their specific fields; elements of interest in the oral story; types of subject matter; types of structure; literary characteristics.

(Omitted 1930-31.)

THE DEPARTMENT OF FINE ARTS

ART AND MUSIC

A. ART

MR. ANDERSON

The aims of the section of Art are: 1. To provide for students the minimum knowledge of art that is essential for a liberal education; 2. To provide undergraduate art training suitable for the careers of artists and teachers of Art.

Before planning their courses in Art, students should consult the adviser.

It may be necessary for students contemplating later professional study or work in the field of art to take more than the regular one hundred twenty-four hours required for graduation in order to include the desired courses in Art and at the same time meet the regular requirements for the degree of Bachelor of Arts.

The remainder of the requisite 124 hours needed for graduation must be made up among the other courses in the College of Liberal Arts, according to the regulations for the degree of Bachelor of Arts, in consultation with the adviser.

Majors: A major consists of twenty-four or thirty-six credit hours, exclusive of Art 1, 2, 5, and 6.

Major in Commercial Art: Select courses amounting to twenty-four credit hours from the following groups—(1) Color, Art 61, 62, 163, 164; (2) Composition, Art 51, 52, 67, 68, 101, 102, 121, 135, 136; (3) Illustration, Art 63, 64, 113, 114; (4) Life, Art 77, 78, 105, 106; (5)

Sketch, Art 59, 60, 109, 110; (6) and consider also Art 73, 74, 125, 130, 151, 152.

This program prepares the student for such positions as commercial designer, illustrator, interior decorator, and poster artists.

Major in Fine Arts: Select courses amounting to thirty-six credit hours from the following groups—(1) Color, Art 61, 62, 163, 164; (2) Composition, Art 51, 52, 67, 68, 81, 82, 101, 102, 121, 135, 136; (3) Illustration, Art 63, 64, 113, 114; (4) Life, Art 77, 78, 105, 106, 181, 182; (5) Sketch, Art 59, 60, 109, 110; (6) and consider also Art 73, 74, 125, 151, 152.

This program trains the students for a career in the Fine Arts.

Major in Public School Art: Select courses amounting to twenty-four credit hours from the following groups—(1) Color, Art 61, 62, 163, 164; (2) Composition, Art 51, 52, 67, 68, 81, 82, 101, 102; (3) Life, Art 77, 78, 105, 106; (4) Sketch, Art 59, 60, 109, 110; (5) History of Art, Art 151, 152. The prospective teacher must also consider courses in the teaching of Art, Art 127 and 191.

COURSES IN ART

1-2. CAST DRAWING.—(A) Yr. Each semester. 0+6, Cr. 1.

A course in cast drawing arranged to develop greatest power of draughtsmanship. Training of responsive and well-controlled hand. Facile handling of form uninfluenced by movement or color. Cast drawing is fundamental to all serious graphic representation.

5-6. STILL LIFE.—(A) Yr. Each semester. 0+6, Cr. 1.

Drawing and painting of still life offered for intensive work in composition and color study. Directness of technique and intelligent use of color. Problems in arrangement and lighting with special consideration of the possibilities and limitations of pigments in representation.

51-52. COMPOSITION.—(B) Yr. Each semester. 0+2, Cr. 1.

Good composition is the foundation of all artistic expression and to this end manipulation of line, form, and color is applied in pictorial and illustrative arrangements. Arrangement of subject material, tone, distribution, interchange, scale, recession, rhythm, color, and unity. Underlying purpose of course is to clarify, stimulate, and strengthen creative powers of composition. Open to Industrial Arts students.

Prerequisite: Art 1, 2, 5, 6.

59-60. SKETCH.—(B) Yr. Each semester. 0+2, Cr. 1.

The study of graphic portrayal in outline, light and shade, flat, and graded tones in the various media. Well organized observation and memory of form, line, and mass by sketching indoors and directly from nature. Open to Industrial Arts students.

Prerequisite: Art 1, 2.

61-62. COLOR.—(B) Yr. Each semester. 0+2, Cr. 1.

Color theories; general characteristics of color; the harmony and contrast of colors; principles of color composition. Chromatic possibilities and beauties of the color circle. Open to all students.

- 63-64. ILLUSTRATION.—(B) Yr. Each semester. 0+2, Cr. 1.

Pictorial design as applied to books and other projects of illustration. Actual studio problems from professional viewpoint. Special attention given to psychological, dramatic, and decorative appeal.

Prerequisite: Art 51, 52.

- 67-68. DESIGN.—(B) Yr. Each semester. 0+2, Cr. 1.

The power to design is essential in all commercial, industrial, and fine arts. The course in design is purposively adjusted to train the inventive faculty basic to all creative art. Consideration given to theory and practical application of design. Open to Industrial Arts students.

Prerequisite: Art 1, 2, 5, 6.

- 73-74. PERSPECTIVE.—(B) Yr. Each semester. 0+2, Cr. 1.

The knowledge and use of scientific principles of perspective essential to faithful and successful representation of subject matter in all phases of art. Progression from simple to complex problems. Parallel and angular perspective; perspective of cast shadows and of reflections. Practical outdoor perspective problems, involving also aerial perspective.

Prerequisite: Art 1, 2, 5, 6.

- 77-78. ARTISTIC ANATOMY.—(B) Yr. Each semester. 0+3, Cr. 2.

The structure and action of the human figure studied analytically from models, anatomical casts, charts and pertinent literature. Bones and muscles studied separately and integrally with emphasis upon position, action, and function of each. Anatomy as fundamental to life drawing and painting.

Prerequisite: Art 1, 2.

- 81-82. RESEARCH IN NATURE.—(B) Yr. Each semester. 0+2, Cr. 1.

A versatile and well-defined knowledge of existent arrangements of line, form, and color in flora, fauna, and fish categories in nature. Natural forms converted into conventional or abstract design motifs. Designs from nature made into single units, all-over patterns, and borders.

Prerequisite: Art 1, 2, 5, 6.

- 101-102. COMPOSITION.—(C) Yr. Each semester. 0+2, Cr. 1.

Continuation of Art 51, 52 with graded development to complex problems.

Prerequisite: Art 51 and 52.

- 105-106. LIFE.—(C) Yr. Each semester. 0+2, Cr. 1.

Life drawing provides advanced study of the human figure with particular attention to the relationship of muscles and bony structure to surface form. Analysis of function of bone and muscle in movement.

Prerequisite: Art 77 and 78.

- 107-108. HISTORY OF AMERICAN ART.—(C) Yr. Each semester. 0+2, Cr. 2.

History of American painting and sculpture.

- 109-110. SKETCH.—(C) Yr. Each semester. 0+2, Cr. 1.

Continuation of Art 59, 60 by emphasizing application of technique in fine art and commercial pursuits.

Prerequisite: Art 59, 60.

- 113-114. ILLUSTRATION.—(C) Yr. Each semester. 0+2, Cr. 1.

Continuation of Art, 63, 64 with attention given to book, catalog, newspaper, and magazine reproduction requirements.

Prerequisite: Art 63, 64.

121. POSTER DESIGN.—(C) Sem. 2. 0+2, Cr. 1.

Essentials of poster design. Modes of treatment relative to methods of reproduction. Stress laid upon simplicity and forceful decorative effects. Advertising value of posters.

Prerequisite: Art 67, 68.

125. BLOCK PRINTING.—(C) Sem. 1. 0+2, Cr. 1.

This interesting phase of the decorative and printing arts offers wide creative opportunities. Applied designs on textiles, poster stamps, and initial letters are presented as class problems.

127. DRAWING AND CONSTRUCTION.—(C) 1+2, Cr. 2.

A comprehensive analysis of drawing and construction in the primary and intermediate grades. Freehand perspective, use of media, and elementary Art study. For the student of education not specializing in Art instruction.

(Given upon sufficient demand.)

130. INTERIOR DECORATION.—(C) Sem. 2. 0+2, Cr. 1.

Practical problems in the field of Interior Decoration. Appreciation of design in form, color, and arrangement. Working knowledge of materials, various periods of applied decorative design and principles of harmony in interior beautification.

Prerequisite: Art 51, 52, 59, 60.

135-136. LAYOUT COMPOSITION.—(C) Yr. Each semester. 0+2, Cr. 1.

Graded problems in newspaper and general commercial advertising layout. Methods of reproduction. Layouts and dummies studied from standpoint of actual studio requirements.

Prerequisite: Art 1, 2, 59, 60, 101, 102.

151-152. HISTORY OF ART.—(D) Yr. Each semester. 2+0, Cr. 2.

History of art of all ages. Proper appreciation of art values. Schools of art, branches of art, art traditions. Lectures augmented by typical examples shown by slides and prints. Lecture tours to art galleries in Chicago.

163-164. WATER COLOR.—(D) Yr. Each semester. 0+3, Cr. 1.

Technical knowledge of painting still life, figure sketches and landscapes in water color. Clearness and forcefulness of expression. Methods of technique studies. Landscape sketch trips made for direct study from nature.

Prerequisite: Art 1, 2, 59, 60.

181-182. PORTRAIT PAINTING.—(D) Yr. Each semester. 0+3, Cr. 1.

Intensive study by advanced students for professional preparation. Portrait problems from life arranged for greatest technical benefit of lighting, posing, and composition. Use of media in portraiture.

Prerequisite: Art 105 and 106.

191. PUBLIC SCHOOL ART METHODS.—(D) Sem. 1. 2+2, Cr. 3.

A teacher's course. Assignments in drawing, design, and construction to illustrate the development of the several types of art work. Work adapted to the needs of teachers in secondary education. Methods of presenting material.

Prerequisite: Eighteen credits in Art.

B. MUSIC

MR. SCHWEPPE, PROFESSOR CHAFFEE, MRS. SCHWEPPE, MR. GREEN, MR. WINSLOW,
MR. BUCCI, MRS. MORONY

The aims of the Section of Music are: 1. To provide for students taking the degree of Bachelor of Arts opportunities to understand and appreciate music as part of a liberal education; 2. To provide for students who major in music for the purpose of becoming professional performers or teachers, a four-year curriculum with a major in applied or theoretical music leading to the degree of Bachelor of Music; 3. To provide for students who desire to become supervisors and teachers of public school music, a four-year curriculum which will comply with all state requirements in both Education and Music, and lead to the degree of Bachelor of Arts.

Applied Music is the practical study of voice, violin, piano, organ, etc. Theory is a group name for harmony, counterpoint, form and analysis, composition, and allied subjects.

SPECIAL MUSIC FEES

In addition to the regular tuition fees, the following special music fees are charged:

- One-half hour private lesson in violin or orchestral instruments, \$2.00 per lesson.
- One-half hour private lesson in piano or organ, \$3.00 per lesson.
- A forty-minute private lesson in voice, \$4.00 per lesson.
- Class lessons in voice, one hour in length, \$18.00 per semester.
- Voice lecture, for others than private students, \$5.00 per semester.
- Rental of practice room with piano for one daily practice hour, \$5.00 per semester; for each additional hour, \$5.00 per semester.
- Rental of organ for one hour, 30 cents; each additional hour, 30 cents.

UNIT OF CREDIT

The unit for credit in applied music is estimated as follows:

1. Violin, Piano, Organ, etc.: One thirty-minute private lesson per week plus two hours daily practice for five days a week. One credit per semester.
2. Wind instruments: One thirty-minute private lesson per week plus one hour daily practice for five days a week. One credit per semester.
3. Voice: One thirty-minute private lesson per week plus one hour daily practice for five days a week. One credit per semester.
4. Voice: One class lesson plus one lecture class per week. One-half credit per semester.

Student Recitals: Music students are required to attend all recitals as a part of their regular work and perform in recitals when so directed by their instructors.

CURRICULUM IN APPLIED MUSIC WITH A MAJOR
IN PIANO OR ORGAN

(Leading to the degree of Bachelor of Music.)

Freshman Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
M. 1.	Sight Singing	½	M. 2.	Sight Singing	½
M. 3.	Ear Training	½	M. 4.	Ear Training	½
M. 5.	Harmony	3	M. 6.	Harmony	3
M. 49 P. or Or.	Applied Music	2	M. 50 P. or Or.	Applied Music	2
Eng. 1.	English	3	Eng. 2.	English	3
	Foreign Language....	3		Foreign Language ...	3
Orient. 1.	Social Science	3	Orient. 2.	Social Science	3
P.E. 1.	Sports and Gym-		P.E. 2.	Sports and Gym-	
	nastics	½		nastics	½
P.E. 3.	Individual Health		P.E. 4.	Individual Health	
	Program	½		Program	½

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Sophomore Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
M. 51.	Sight Singing	½	M. 52.	Sight Singing	½
M. 53.	Ear Training	½	M. 54.	Ear Training	½
M. 55.	Harmony	2	M. 56.	Harmony	2
M. 57.	Keyboard Harmony..	1	M. 58.	Keyboard Harmony..	1
M. 59.	Music History	2	M. 60.	Music History	2
M. 99 P. or Or.	Applied Music	2	M. 100 P. or Or.	Applied Music	2
Eng. 51.	Survey of Literature.	3	Eng. 52.	Survey of Literature.	3
Rel. 1.	The Life of Jesus or		Rel. 2.	The Teaching of	
Art 107.	History of American			Jesus or	
	Art	2	Art 108.	History of American	
	Foreign Language. .	3		Art	2
P.E. 51.	Survey of Games and			Foreign Language ...	3
	Sports	0	P.E. 52	Survey of Games and	
				Sports	0

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Junior Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
M. 101.	Harmony	2	M. 102.	Harmony	2
M. 103.	Keyboard Harmony..	1	M. 104.	Keyboard Harmony..	1
M. 105.	Counterpoint	2	M. 106.	Counterpoint	2
M. 107.	Form and Analysis..	2	M. 108.	Form and Analysis..	2
M. 149 P. or Or.	Applied Music	2	M. 150 P. or Or.	Applied Music	2
Phys. 51.	General Physics	4	Phys. 52.	General Physics	4
	Liberal Arts Elective.	2		Liberal Arts Elective.	2
	*Music Elective	1		*Music Elective	1

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*Junior electives: Chorus, Choir, Orchestra, Band.

Senior Year

	<i>First Semester</i>	<i>Cr.</i>		<i>Second Semester</i>	<i>Cr.</i>
M. 151.	Composition	2	M. 152.	Composition	2
M. 153.	Instrumentation	2	M. 154.	Instrumentation	2
M. 195.	Senior Recital	3	M. 196.	Senior Recital	3
M. 199 P. or Or.	Applied Music	2	M. 200 P. or Or.	Applied Music	2
M.	Repertoire and Inter-pretation	1	M.	Repertoire and Inter-pretation	1
	Accompanying	1		English Elective	3
	English Elective	3		†Music Elective	2
	†Music Elective	2			
		16			16

Ensemble is required each year: In the freshman and sophomore years without credit; in the junior and senior years with credit. The total credit in ensemble toward a degree cannot exceed four credits.

One hundred twenty-four credit hours are required for the degree of Bachelor of Music.

COURSES IN APPLIED MUSIC

PIANO

MR. GREEN

For admission to the piano curriculum piano students must demonstrate by examination the ability to play all major and minor scales, hands together, two, three and four notes at M.M. 100; major and minor arpeggios, each hand alone, four notes at M.M. 80; selections from the following or the equivalent: Heller Op. 45 and 46, Loeschorn Op. 66, the easier Haydn and Mozart Sonatas.

49-50P. PIANO.—(A) Yr. Each semester. 1+10, Cr. 2.

Playing of all major and minor scales with facility—four notes at M.M. 120-132; all major and minor arpeggios (triads) in fundamental positions and inversions—four notes at M.M. 89-100; Etudes or exercises selected from Czerny Op. 299; Cramer, Bach, Inventions, Bach's Little Preludes and Fugues, and other technical exercises of similar grade; Mozart sonatas and easier Beethoven sonatas; composition by Grieg, Schubert, Schumann, Mendelssohn, etc. Memorizing.

49½-50½P. PIANO.—(A) Yr. Each semester. ½+10, Cr. 1.

A reasonable amount of the material covered in Music 49-50P.

99-100P. PIANO.—(B) Yr. Each semester. 1+10, Cr. 2.

All scales with rapidity and variety of tone—seven notes at M.M. 88-96. Seventh chord arpeggios—four notes at M.M. 120-132. Hanon, Virtuoso Studies, Czerny Op. 740, Bach's Well-Tempered Clavichord. Beethoven, Sonatas; Chopin, Preludes and Waltzes. Compositions by Mendelssohn, Schumann, Rubinstein, Grieg, MacDowell, Sinding, Raff, etc. Memorizing.

Prerequisite: Music 49-50P.

†Senior electives: Chorus, Choir, Orchestra, Band, Music 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, and a second applied subject not exceeding four semester hours toward a degree. The second applied study is subject to extra fees.

99½-100½P. PIANO.—(B) Yr. Each semester. ½+10, Cr. 1.

A reasonable amount of the material covered in Music 99-100P.

Prerequisite: Music 49½-50½P.

149-150P. PIANO.—(C) Yr. Each semester. 1+10, Cr. 2.

Scales and studies in double thirds and sixths, Moskowski. Killak's Octave School. Henselt, Etudes; Chopin, Ballads; Beethoven, Sonatas. Mendelssohn, Concerto. Brahms's Rhapsodies and compositions of equal difficulty.

Prerequisite: Music 99-100P.

149½-150½. PIANO.—(C) Yr. Each semester. ½+10, Cr. 1.

A reasonable amount of the material covered in Music 149-150P.

Prerequisite: Music 99½-100½P.

199-200P. PIANO.—(D) Yr. Each semester. 1+10, Cr. 2.

Chopin, Etudes. Sonatas and concertos by Beethoven, MacDowell, Brahms.

Prerequisite: Music 149-150P.

199½-200½P. PIANO.—(D) Yr. Each semester. ½+10, Cr. 1.

A reasonable amount of the material covered in Music 199-200P.

Prerequisite: Music 149½-150½P.

177-178P. ACCOMPANYING.—(D) Yr. Each semester. Cr. 1.

Study in the art of playing piano accompaniments. Practical work under supervision, with singers, violinists, and other instrumentalists. Open to students with sufficient experience. Consultation with instructor necessary before registering.

Prerequisite: Music 149-150P.

185-186. REPERTOIRE AND INTERPRETATION.—(D) Yr. Each semester. Cr. 1.

The works of the older classic composers together with those of the modern school, discussed and illustrated, with reference to the interpretive aspect, and to program building.

195-196P. SENIOR RECITAL.—(D) Yr. Each semester. Cr. 3.

A recital must be played without notes at the end of the senior year.

A sonata or concerto, besides groups of smaller compositions will comprise the program.

Prerequisite: Concurrently with Music 199-200P.

ORGAN

MRS. MORONY

For admission to the organ curriculum organ students must demonstrate by examination the completion of the piano requirements stated above. Organ and piano are usually studied together, since a firm and well established piano technic is a necessity for good organ playing. At the discretion of the adviser, students majoring in organ may be assigned to take one lesson per week in piano as a substitute for one of the two lessons per week in organ during the last three years.

49-50Or. ORGAN.—(A) Yr. Each semester. 1+10, Cr. 2.

Bach, Book II: Prelude and Fugues in E-minor, C-minor and D-minor. D'Every: Meditation Toccata. Guilmant: Sonata in C-minor Op. 56.

Salome: Symphonic Allegro. Schneider: Pedal studies.

49½-50½Or. ORGAN.—(A) Yr. Each semester. ½+10, Cr. 1.

A reasonable amount of the work outlined in Music 49-50Or.

99-100Or. ORGAN.—(B) Yr. Each semester. 1+10, Cr. 2.

Instruction in church service playing, accompanying for hymns, solos, masses, cantatas, oratorios, and anthems. Dudley Buck: Pedal Studies. Bach: Book VI, Prelude and Fugues in D-major; Book III, Prelude and Fugues in A-major. Guilmant: Sonata in D-minor Op. 61. Mendelssohn: Notturmo. Hollins: Concert Overture C-major. Faulkes: Sonata in D-minor.

Prerequisite: Music 49-50Or.

99½-100½. ORGAN.—(B) Yr. Each semester. ½+10, Cr. 1.

A reasonable amount of the work outlined in 99-100Or.

Prerequisite: Music 49½-50½Or.

149-150Or. ORGAN.—(C) Yr. Each semester. 1+10, Cr. 2.

Pfitzner: Pedal Studies. Bach: Book VII, Prelude and Fugue in B-minor; Book VI in G-major. Hollins: Concert Overture C-minor. Boellmann: Suite Gothique. Guilmant: Sonata in D-major Op. 50. Batiste: Offertoire.

Prerequisite: Music 99-100Or.

149½-150½. ORGAN.—(C) Yr. Each semester. ½+10, Cr. 1.

A reasonable amount of work outlined in Music 149-50Or.

Prerequisite: Music 99½-100½Or.

199-200Or. ORGAN.—(D) Yr. Each semester. 1+10, Cr. 2.

Nilson: Pedal Studies. Bach: Book X, Toccata and Fugue in D-minor; Book XII, Fantasia and Fugue in A-minor. Saint-Saens: Rhapsodies Nos. 1, 2, and 3. Dudley Buck: Sonata in G-minor. Widor: Symphony No. 4. Guilmant: Sonata D-minor Op. 42. Dethier: Passacaglia.

Prerequisite: Music 149-150Or.

199½-200½Or. ORGAN.—(D) Yr. Each semester. ½+10, Cr. 1.

A reasonable amount of work outlined in Music 199-200Or.

Prerequisite: Music 149½-150½Or.

195-196Or. SENIOR RECITAL.—(D) Yr. Each semester. Cr. 3.

The student gives a public recital some time during his senior year including selections from the following: Bach's Preludes and Fugues, a Sonata by a standard composer, selections from the most important works by modern composers.

Prerequisite: Music 200Or.

CURRICULUM IN APPLIED MUSIC WITH A MAJOR IN VIOLIN

(Leading to the degree of Bachelor of Music)

This curriculum is also applicable to students with a major in other ochestral instruments.

Freshman Year

<i>First Semester</i>			Cr.	<i>Second Semester</i>			Cr.
M.	1.	Sight Singing	½	M.	2.	Sight Singing	½
M.	3.	Ear Training	½	M.	4.	Ear Training	½
M.	5.	Harmony	3	M.	6.	Harmony	3
M.	49Vi.	Violin	2	M.	50Vi.	Violin	2
Eng.	1.	English	3	Eng.	2.	English	3
		Foreign Language...	3			Foreign Language...	3
Orient.	1.	Social Science	3	Orient.	2.	Social Science	3
P. E.	1.	Sports and Gymnas- tics	½	P. E.	2.	Sports and Gymnas- tics	½
P. E.	3.	Individual Health Program	½	P. E.	4.	Individual Health Program	½
			—				—
			16				16

Sophomore Year

<i>First Semester</i>			Cr.	<i>Second Semester</i>			Cr.
M.	51.	Sight Singing	½	M.	52.	Sight Singing	½
M.	53.	Ear Training	½	M.	54.	Ear Training	½
M.	55.	Harmony	2	M.	56.	Harmony	2
M.	57.	Keyboard Harmony..	1	M.	58.	Keyboard Harmony..	1
M.	59.	Music History	2	M.	60.	Music History	2
M.	99Vi.	Violin	2	M.	100Vi.	Violin	2
Eng.	51.	Survey of Literature.	3	Eng.	52.	Survey of Literature.	3
Rel.	1.	The Life of Jesus or		Rel.	2.	The Teaching of Jesus or	
Art	107.	History of American Art	2	Art	108.	History of American Art	2
		Foreign Language ..	3			Foreign Language ..	3
P. E.	51.	Survey of Games and Sports	0	P. E.	52.	Survey of Games and Sports	0
			—				—
			16				16

Junior Year

<i>First Semester</i>			Cr.	<i>Second Semester</i>			Cr.
M.	101.	Harmony	2	M.	102.	Harmony	2
M.	103.	Keyboard Harmony..	1	M.	104.	Keyboard Harmony..	1
M.	105.	Counterpoint	2	M.	106.	Counterpoint	2
M.	107.	Form and Analysis..	2	M.	108.	Form and Analysis..	2
M.	149Vi.	Violin	2	M.	150Vi.	Violin	2
Phys.	51.	General Physics	4	Phys.	52.	General Physics	4
		Liberal Arts Elective	2			Liberal Arts Elective	2
		*Music Elective	1			*Music Elective	1
			—				—
			16				16

*See note on Junior electives under Piano and Organ curriculum.

Senior Year

<i>First Semester</i>		<i>Cr.</i>	<i>Second Semester</i>		<i>Cr.</i>
M. 151.	Composition	2	M. 152.	Composition	2
M. 153.	Instrumentation	2	M. 154.	Instrumentation	2
M. 195.	Senior Recital	3	M. 196.	Senior Recital	3
M. 199Vi.	Violin	2	M. 200Vi.	Violin	2
	English Elective	3		English Elective	3
	†Music Elective	4		†Music Elective	4
		—			—
		16			16

Orchestra is required each year. See note on ensemble credit under Piano and Organ curriculum.

One hundred twenty-four credit hours are required for the degree of Bachelor of Music.

VIOLIN

MR. WINSLOW

For admission to the violin curriculum students must demonstrate by examination that they are well grounded in correct position, intonation, tone, and bowing and that they have completed the following or the equivalent: The first six Pleyel Duos Op. 8 for two violins, Kayser Op. 20. Book II (omitting numbers 20 and 22.)

49-50Vi. VIOLIN.—(A) Yr. Each semester. 1+5, Cr. 2.

Belgian School of Violin, Book 3. Bowing exercises to develop a large style of playing, first position double-stop work, and much work on tone quality. A graceful, natural, and effective method of holding the violin and bow is insisted upon.

49½-50½Vi. VIOLIN.—(A) Yr. Each semester. ½+5, Cr. 1.

A reasonable amount of the material covered in Music 49-50Vi.

99-100Vi. VIOLIN.—(B) Yr. Each semester. 1+5, Cr. 2.

Belgian School of Violin, Book 3 continued, taking more difficult double stop exercises, octaves, studies in staccato, arpeggio, and velocity work. Solos by classic and modern composers.

Prerequisite: Music 50Vi.

99½-100½Vi. VIOLIN.—(B) Yr. Each semester. ½+5, Cr. 1.

A reasonable amount of the material covered in Music 99-100Vi.

Prerequisite: Music 49½-50½Vi.

149-150Vi. VIOLIN.—(C) Yr. Each semester. 1+5, Cr. 2.

Belgian School of Violin, Book 4. Studies in velocity and difficult points of virtuosity. Scales in three octaves in all keys, with Paganini fingering. Sonatas by Handel, Mozart, etc. Concertos by Seitz, Nardini, etc. Pieces of corresponding difficulty to meet needs and style of pupils.

Prerequisite: Music 100Vi.

149½-150½Vi. VIOLIN.—(C) Yr. Each semester. ½+5, Cr. 1.

A reasonable amount of the material covered in Music 149-150Vi.

Prerequisite: Music 99½-100½Vi.

†See note on Senior electives under Piano and Organ curriculum.

199-200Vi. VIOLIN.—(D) Yr. Each semester. 1+5, Cr. 2.

Belgian School of Violin, Book 4 continued. Also studies by Kreutzer, Rode, and Fiorillo. Concertos by De Beriot, Viotti, Mozart, etc.

Prerequisite: Music 150Vi.

199½-200½. VIOLIN.—(D) Yr. Each semester. ½+5, Cr. 1.

A reasonable amount of the material covered in Music 199-200Vi.

Prerequisite: Music 149½-150½Vi.

195-196Vi. SENIOR RECITAL.—(D) Yr. Each semester. Cr. 3.

A Senior Recital program is given, selected by the instructor, the numbers depending largely upon the ability and style of the individual student. A sonata, concerto and groups of the more important works of standard classic and modern composers will comprise the program.

Prerequisite: Music 200Vi.

WIND INSTRUMENTS

MR. BUCCI

The prerequisite for entrance in the freshman year: the student should have acquired the elementary technique of his instrument.

49-50W. WIND INSTRUMENT.—(A) Each semester. 1+10, Cr. 2.

Ability to play acceptably exercises of moderate difficulty, including all the principal phases of technique characteristic of the particular instrument played.

99-100W. WIND INSTRUMENT.—(B) Each semester. 1+10, Cr. 2.

The student should acquire sufficient orchestra routine to fill satisfactorily a second desk position in symphonic works of lesser difficulty.

149-150W. WIND INSTRUMENT.—(C) Each semester. 1+10, Cr. 2.

He should acquire such orchestra routine as to fill the principal position in symphonic works.

199-200W. WIND INSTRUMENT.—(D) Each semester. 1+10, Cr. 2.

Ability to play, preferably from memory, an etude, a sonata, a concerto, or their equivalents, and at least three miscellaneous pieces.

Orchestra or band is required each year. See note on ensemble credit under Piano and Organ curriculum.

CURRICULUM IN APPLIED MUSIC WITH A MAJOR IN VOICE CULTURE

(Leading to the degree of Bachelor of Music)

Freshman Year

First Semester			Cr.	Second Semester			Cr.
M.	1.	Sight Singing	½	M.	2.	Sight Singing	½
M.	3.	Ear Training	½	M.	4.	Ear Training	½
M.	5.	Harmony	3	M.	6.	Harmony	3
	7.	Music Appreciation..	2		8.	Art Appreciation....	2
M.	49½P.	Piano	1	M.	50½P.	Piano	1
M.	41Vo.	Fundamentals of		M.	42Vo.	Fundamentals of	
		Voice Training ..	0			Voice Training ..	0
M.	49Vo.	Voice	2	M.	50Vo.	Voice	2
Engl.	1.	English	3	Engl.	2.	English	3
		Foreign Language ...	3			Foreign Language ...	3
P. E.	1.	Sports and Gymnas-		P. E.	2.	Sports and Gymnas-	
		tics	½			tics	½
P. E.	3.	Individual Health		P. E.	4.	Individual Health	
		Program	½			Program	½
			16				16

Sophomore Year

First Semester			Cr.	Second Semester			Cr.
M.	51.	Sight Singing	½	M.	52.	Sight Singing	½
M.	53.	Ear Training	½	M.	54.	Ear Training	½
M.	55.	Harmony	2	M.	56.	Harmony	2
M.	57.	Keyboard Harmony..	1	M.	58.	Keyboard Harmony..	1
M.	59.	Music History	2	M.	60.	Music History	2
M.	99½P.	Piano	1	M.	100½P.	Piano	1
M.	99Vo.	Voice	2	M.	100Vo.	Voice	2
Engl.	51.	Survey of Literature.	2	Engl.	52.	Survey of Literature.	2
Rel.	1.	The Life of Jesus or		Rel.	2.	The Teaching of Jesus	
						or	
Art.	107.	History of American		Art	108.	History of American	
		Art	2			Art	2
		Foreign Language...	3			Foreign Language...	3
P. E.	51.	Survey of Games and		P. E.	52.	Survey of Games and	
		Sports	0			Sports	0
			16				16

Junior Year

First Semester			Cr.	Second Semester			Cr.
M.	101.	Harmony	2	M.	102.	Harmony	2
M.	103.	Keyboard Harmony..	1	M.	104.	Keyboard Harmony..	1
M.	105.	Counterpoint	2	M.	106.	Counterpoint	2
M.	107.	Form and Analysis..	2	M.	108.	Form and Analysis..	2
M.	149Vo.	Voice	2	M.	150Vo.	Voice	2
Phys.	51.	General Physics	4	Phys.	52.	General Physics	4
		Liberal Arts Elective	3			Liberal Arts Elective	3
			16				16

Senior Year							
First Semester			Cr.	Second Semester			Cr.
M.	151.	Composition	2	M.	152.	Composition	2
M.	195.	Recital	3	M.	196.	Recital	3
M.	199Vo.	Voice	2	M.	200Vo.	Voice	2
Engl.	101.	Public Speaking.....	3	Engl.	102.	Public Speaking.....	3
		English Elective	3			English Elective	3
		*Music Elective	3			*Music Elective	3
			<hr/>				<hr/>
			16				16

Chorus or choir is required each year. See note ensemble credit under piano and organ curriculum.

One hundred twenty-four credit hours are required for the degree of Bachelor of Music.

Piano requirement: Students with a major in voice must present, for graduation, work in piano equivalent to M. 100P.

VOICE

MR. and MRS. SCHWEPPE

41-42Vo. FUNDAMENTALS OF VOICE TRAINING.—(A) Yr. Each semester. 1+0, Cr. 0.

A foundation course for students and teachers of voice. Such subjects are considered as the nature of sound and the material of music; causes of the varying characteristics of the musical tone; the physical basis for the different classes of musical instruments and their comparison with the human voice; the physiology of the throat, its resonance, cavities and breath form; psychological control under the loss of sound and the physical response to loss of sound.

All students in voice must be enrolled in this lecture course on voice.

49-50Vo. VOICE.—(A) Yr. Each semester. 1+5, Cr. 2.

Correct breathing exercises; corrective posture work; study of vowel and consonants, their proper formation and relation to singing; building into syllable and syllables into words; release of body energy required in singing and relationship of release to idea expressed in the word. Phrasing.

99-100Vo. VOICE.—(B) Yr. Each semester. 1+5, Cr. 2.

Continued work in technique. Embellishments, staccato and trill. Easy art songs. Oratorio and ensemble.

Prerequisite: Music 50Vo.

149-150Vo. VOICE.—(C) Yr. Each semester. 1+5, Cr. 2.

Advanced technique, building into the subject matter of the song. Beginning French, German and Italian art songs. Opera and oratorio arias. Recitals and ensemble.

Prerequisite: Music 100Vo.

149½-150½Vo. VOICE.—(C) Yr. Each semester. ½+5, Cr. 1.

A reasonable amount of the material outlined in Music 149-150Vo.

Prerequisite: Music 99½-100½Vo.

*See note on Senior electives under Piano and Organ curriculum. In addition the student may elect Music 153, 154.

199-200Vo. VOICE.—(D) Yr. Each semester. 1+5, Cr. 2.

Development of repertoire of world's best vocal music. Program building.
One complete oratorio or opera role. One lesson weekly in coaching.

Prerequisite: Music 150Vo.

199½-200½Vo. VOICE.—(D) Yr. Each semester. ½+5, Cr. 1.

A reasonable amount of material outlined in Music 199-200Vo.

Prerequisite: Music 149½-150½Vo.

195-196Vo. RECITAL.—(D) Yr. Each semester. Cr. 3.

Senior recital to count as final examination. Student required to build his own program from his four years repertoire.

39-40Vo. VOICE CLASS.—(A) Yr. Each semester, ½+5, Cr. ½.

The same as 49-50Vo. Five students to a class.

89-90Vo. VOICE CLASS.—(B) Yr. Each semester. ½+5, Cr. ½.

The same as 99-100Vo. Five students to a class.

139-140Vo. VOICE CLASS.—(C) Yr. Each semester. ½+5, Cr. ½.

The same as 149-150Vo. Five students to a class.

189-190Vo. VOICE CLASS.—(D) Yr. Each semester. ½+5, Cr. ½.

The same as 199-200Vo. Five students to a class.

CURRICULUM IN THEORY

Curriculum in Theory and Composition leading to the degree of Bachelor of Music.

(Subject to freshman entrance requirements in Piano.)

Freshman Year

<i>First Semester</i>			Cr.	<i>Second Semester</i>			Cr.
M.	1.	Sight Singing	½	M.	2.	Sight Singing	½
M.	3.	Ear Training	½	M.	4.	Ear Training	½
M.	5.	Harmony	3	M.	6.	Harmony	3
M.	49P.or Or.	Applied Music	2	M.	50P.or Or.	Applied Music	2
Eng.	1.	English	3	Eng.	2.	English	3
		Foreign Language ...	3			Foreign Language ...	3
Orient.	1.	Social Science	3	Orient.	2.	Social Science	3
P.E.	1.	Sports and Gymnas- tics	½	P.E.	2.	Sports and Gymnas- tics	½
P.E.	3.	Individual Health Program	½	P.E.	4.	Individual Health Program	½
			<hr/>				<hr/>
			16				16

Sophomore Year

First Semester			Cr.	Second Semester			Cr.
M.	51.	Sight Singing	½	M.	52.	Sight Singing	½
M.	53.	Ear Training	½	M.	54.	Ear Training	½
M.	55.	Harmony	2	M.	56.	Harmony	2
M.	57.	Keyboard Harmony..	1	M.	58.	Keyboard Harmony..	1
M.	59.	Music History	2	M.	60.	Music History	2
M.	99P.or Or.	Applied Music	2	M.	100P.or Or.	Applied Music	2
Eng.	51.	Survey of Literature.	3	Eng.	52.	Survey of Literature.	3
Rel.	1.	The Life of Jesus		Rel.	2.	The Teaching of Jesus or	
Art.	107.	History of American Art	2	Art	108.	History of American Art	2
		Foreign Language ..	3			Foreign Language ..	3
P. E.	51.	Survey of Games and Sports	0	P. E.	52.	Survey of Games and Sports	0
			—				—
			16				16

Junior Year

First Semester			Cr.	Second Semester			Cr.
M.	101.	Harmony	2	M.	102.	Harmony	2
M.	103.	Keyboard Harmony..	1	M.	104.	Keyboard Harmony..	1
M.	105.	Counterpoint	2	M.	106.	Counterpoint	2
M.	107.	Form and Analysis..	2	M.	108.	Form and Analysis..	2
M.	113.	Choral Composition .	2	M.	114.	Choral Composition .	2
Phys.	51.	General Physics	4	Phys.	52.	General Physics	4
		Liberal Arts Elective.	2			Liberal Arts Elective.	2
		*Music Elective	1			*Music Elective	1
			—				—
			16				16

Senior Year

First Semester			Cr.	Second Semester			Cr.
M.	151.	Composition	2	M.	152.	Composition	2
M.	157.	Counterpoint	2	M.	158.	Counterpoint	2
M.	159.	Harmonic Analysis ..	2	M.	160.	Harmonic Analysis ..	2
M.	161.	Orchestration	2	M.	162.	Orchestration	2
M.	163.	Teaching of Theory..	2	M.	164.	Teaching of Theory..	2
M.	197.	Thesis or Original Composition	3	M.	198.	Thesis or Original Composition	3
		†Music Elective	3			†Music Elective	3
			—				—
			16				16

*Junior electives: Chorus, Choir, Band, Orchestra, and a second applied study not exceeding two semester hours to apply toward a degree. The second applied study is subject to extra fees.

†Senior electives: Chorus, Band, Orchestra, Glee Club, Music 165, 166 and a second applied study not to exceed four semester hours to apply toward a degree. The second applied study is subject to extra fees. One hundred twenty-four credit hours are required for the degree of Bachelor of Music.

CURRICULUM IN PUBLIC SCHOOL MUSIC

(Leading to the degree of Bachelor of Arts, with a major in Public School Music.)

Freshman Year

<i>First Semester</i>			Cr.	<i>Second Semester</i>			Cr.
		Freshman Constant..	14			Freshman Constant..	14
M.	1.	Sight Singing	½	M.	2.	Sight Singing	½
M.	3.	Ear Training	½	M.	4.	Ear Training	½
M.	49½Vo.	Voice	1	M.	50½Vo.	Voice	1
			—				—
			16				16

Sophomore Year

<i>First Semester</i>			Cr.	<i>Second Semester</i>			Cr.
		Sophomore Constant..	6			Sophomore Constant..	6
Psy.	51.	General Psychology..	3	Ed.	52.	Educational Psychol-	
M.	53.	Ear Training	½			ogy	3
M.	5.	Harmony	3	M.	54.	Ear Training	½
M.	99½Vo.	Voice	1	M.	6.	Harmony	3
	*Elective		2	M.	100½Vo.	Voice	1
			—		*Elective		2
			15½				15½

Junior Year

<i>First Semester</i>			Cr.	<i>Second Semester</i>			Cr.
Ed.	113.	History of Educaation	3	Ed.	118.	Secondary Education.	3
Phys.	51.	General Physics	4	Phys.	52.	General Physics	4
M.	55.	Harmony	2	M.	56.	Harmony	2
M.	59.	History of Music....	2	M.	60.	History of Music....	2
M.	149½Vo.	Voice	1	M.	150½Vo.	Voice	1
M.	109.	Elementary P. S.		M.	110.	Elementary P. S.	
		Methods (see Ed.				Methods (see Ed.	
		191)	3			191)	3
M.	111.	Appreciation of Ele-		M.	112.	Appreciation of Ele-	
		mentary School				mentary School	
		Music	0			Music	0
		*Elective	1			*Elective	1
			—				—
			16				16

*Electives are to be chosen from the following: Foreign Language; English 55, 56, 116, 122, 143, 157; History 51, 52, 131, 132; Political Science 51, 52; Sociology 51, 52.

Senior Year

		First Semester	Cr.			Second Semester	Cr.
Ed.	151.	Principles of Teaching	3	Ed.	191.	Supervised Teaching.	3
M.	153.	Instrumentation and Conducting	2	M.	154.	Instrumentation and Conducting	2
M.	199½.	Piano and Voice.....	2	M.	200½.	Piano and Voice.....	2
M.	155.	Orchestral Instrument	1	M.	156.	Orchestral Instrument	1
M.	191.	High School Music Methods (see Ed. 191)	2	M.	192.	High School Music Methods (see Ed. 191)	2
M.	193.	Appreciation of High School Music	0	M.	194.	Appreciation of High School Music	0
		*Elective	6			*Elective	6
			16				16

Ensemble is required each year. See note on ensemble credit under piano and organ curriculum.

Piano required: Students with a major in Public School Music must present for graduation work in piano equivalent to third grade proficiency.

One hundred twenty-four credit hours are required for the degree of Bachelor of Arts with a major in Public School Music.

COURSES IN THE THEORY OF MUSIC

1-2. SIGHT SINGING.—(A) Yr. Each semester. Cr. ½.

Drill in scale and interval singing. Easy time subdivisions. Notation. Two-part singing. One and one-half hours a week per semester for one year. Schweppe.

3-4. EAR TRAINING.—(A) Yr. Each semester. Cr. ½.

Major and minor scales; intervals and elementary rhythmic problems. A study in writing different kinds of measures by hearing them played or sung. Melodic and harmonic intervals and simple chromatic problems. One and one-half hours a week per semester for one year. Chaffee.

5-6. HARMONY.—(A) Yr. Each semester. Cr. 3.

A course in writing scale, intervals, and the different triads. The harmonizations of easy melodies with the principal triads. The principal dissonant chords and their resolution in the harmonization of melodies. The use of secondary triads and easy modulations. Chaffee.

51-52. SIGHT SINGING.—(B) Yr. Each semester. Cr. ½.

Motives and short phrases. Two and three part exercises and simple modulation. Exercises in period writing; a study of chords. One and one-half hours a week per semester for one year. Schweppe.

Prerequisite: Music 1 and 2.

*Electives are to be chosen from the following: Foreign Language; English 55, 56, 116, 122, 143, 157; History 51, 52, 131, 132; Political Science 51, 52; Sociology 51, 52.

53-54. EAR TRAINING II.—(B) Yr. Each semester. Cr. $\frac{1}{2}$.

Continuation of Music 3 and 4. One and one-half hours a week per semester for one year.

Prerequisite: Music 3 and 4.

Chaffee.

55-56. HARMONY.—(B) Yr. Each semester. Cr. 2.

Secondary seventh chords and their inversions. Altered chords, chromatic melodies, passing notes, suspensions, advanced modulation, and the harmonization of chorals.

Prerequisite: Music 5 and 6.

Chaffee.

57-58. KEYBOARD HARMONY.—(B) Yr. Each semester. Cr. 1.

Practical application of the triads of the first year harmony at the keyboard. Chord progressions, cadence formula, and key circle sequences, making use of the scale triads.

Prerequisite: Music 5 and 6.

Chaffee.

59-60. HISTORY OF MUSIC.—(Yr.) Each semester. Cr. 2.

Music of primitive nations. The music and instruments of the Bible. Music of the early Christian Church. Rise and development of the liturgy. Notation. Music and the Renaissance. The polyphonic age. The rise of opera and oratorio. The periods of Bach and Handel, Haydn and Mozart. The advent of Beethoven. The rise of virtuosity and romanticism. Wagner and the new operative tendencies. American music development. Collateral reading, preparation of themes, and outlines during both semesters.

Schweppe.

101-102. HARMONY.—(C) Yr. Each semester. Cr. 2.

Double passing notes and double suspensions. Harmonizations of enharmonic chromatic scale upwards and downwards. Original sequences using above material. Harmonization of chords continued.

Prerequisite: Music 55 and 56.

Chaffee.

103-104. KEYBOARD HARMONY.—(C) Yr. Each semester. Cr. 1.

Many of the principles of the second year harmony are applied. Dominant sevenths, and diminished seventh chords. Modulating keycircle sequences. Extended cadence formulas with chromatic changes.

Prerequisite: Music 57 and 58.

Chaffee.

105-106. COUNTERPOINT.—(C) Yr. Each semester. Cr. 2.

Counterpoint in two, three, and four parts in the various species. This course enables the student to secure facility in composition and is also valuable from an historical and artistic standpoint.

Prerequisite: Music 55 and 56.

Chaffee.

107-108. FORM AND ANALYSIS.—(C) Yr. Semester. Cr. 2.

A study of the structure and aesthetic content of music. Primary and contrapuntal forms. Chord analysis. Small instrumental forms with examples from Schubert, Mendelssohn, Greig, etc. Simple and compound primary forms. Preludes, inventions, and dance forms of Bach; rondo, theme with variations, art song.

Prerequisite: Music 5 and 6.

109-110. ELEMENTARY SCHOOL MUSIC METHODS.—(C) Yr. Each semester. Cr. 3.

A teacher's course. Music in primary grades: seating, presentation of rote songs, monotones, individual work, beginning of sight reading. Music in intermediate grades: board and paper work, divided beat, the chromatic, beginning of two part singing. Music in upper grades and Junior high schools: adolescent voice, three- and four-part work, the glee club. Elementary school entertainments. Teaching material.

Schwepe.

111-112. APPRECIATION OF MUSIC FOR THE ELEMENTARY SCHOOL.—(C) Yr. Each semester. No credit.

A teacher's course. Learning to listen, rhythm drills. Lower grade work. Intermediate grades: instruments of the orchestra, intricate rhythm, beginning of program music. Upper grades: the symphony and higher program music. The rondo form. Beginning of opera.

Schwepe.

113-114. CHORAL COMPOSITION.—(C) Yr. Each semester. Cr. 2.

Exercises in the application of both poetry and the prose to musical forms. Hymn tunes, duets, trios, quartettes for various combinations of voices. The hymn anthem, the full anthem, the solo anthem. Cantatas with piano or organ accompaniment.

Prerequisite: Music 55 and 56.

(Given upon sufficient demand.)

Chaffee.

115-116. HISTORY OF MUSIC.—(C) Yr. Each semester. Cr. 2.

A more detailed and comprehensive study of the development of music; national schools of music; recent contemporary composers. Collateral reading, preparation of themes and outlines during both semesters.

Prerequisite: Music 59 and 60.

Schwepe.

151-152. COMPOSITION.—(D) Yr. Each semester. Cr. 2.

Exercises in writing sections, phrases, periods, small two and three part primary forms and large two and three part primary forms.

Prerequisite: Music 55, 56, 107, 108.

Chaffee.

153-154. INSTRUMENTATION AND CONDUCTING.—(D) Yr. Each semester. Cr. 2.

Development of the orchestra and orchestral instruments. Explanation of all orchestra instruments, compasses, characteristics, tonal effects, etc.; the making and reading of orchestral scores; the arranging and scoring of the simpler forms. The fundamentals of conducting with individual practice.

Schwepe.

155-156. ORCHESTRAL INSTRUMENT.—(D) Yr. Each semester. Cr. 1.

Applied work in stringed or wind instruments as preparation for conducting school bands and orchestras.

Fee required.

Schwepe and Winslow.

157-158. COUNTERPOINT.—(D) Yr. Each semester. Cr. 2.

Review of the general laws of harmonic and melodic progression. Imitative counterpoint and double counterpoint

Prerequisite: Music 105 and 106.

(Omitted 1930-31.)

159-160. HARMONIC ANALYSIS.—(D) Yr. Each semester. Cr. 2.

An analytical and experimental study of extended modulation, modal writing and chromatic harmony.

Prerequisite: Music 107 and 108.

(Omitted 1930-31.)

161-162. ORCHESTRATION.—(D) Yr. Each semester. Cr. 2.

The writing and arranging of duets, trios, quartettes, etc., for different combinations of orchestral instruments. Arranging for complete orchestra; reading of orchestral scores.

Prerequisite: Music 153 and 154.

Winslow.

163-164. TEACHING OF THEORY.—(D) Yr. Each semester. Cr. 2.

A course in supervised teaching dealing with the materials at the teacher's disposal for the accomplishment of various purposes.

(Omitted 1930-31.)

165-166. ADVANCED HARMONY.—(D)

Melodic figuration; general principles of modulation; florid melodies; appoggiaturas and anticipations; the inverted suspension.

Prerequisite: Music 101 and 102.

(Omitted 1930-31.)

191-192. HIGH SCHOOL MUSIC METHODS.—(D) Yr. Each semester. Cr. 2.

A teacher's course. Testing of voices. The high school chorus: seating, sight reading. Glee clubs: boys' and girls'. The producing of an opera. A capella choir: eight-part literature, the oratorio. Voice class teaching. Teaching material. Supervising technique.

Prerequisite: Music 109 and 110.

Schweppe.

193-194. HIGH SCHOOL MUSIC APPRECIATION.—(D) Yr. Each semester.

No credit.

A teacher's course. Different methods of presentation; rhythm, melody; harmony, program music; the Orchestra; composers; cultured rondo, theme with variations, art song.

Prerequisite: Music 111 and 112.

Schweppe.

197-198. THESIS OR ORIGINAL COMPOSITION.—(D) Yr. Each semester. Cr. 3.

(Omitted 1930-31.)

ENSEMBLE

MR. SCHWEPPE

The musical organizations are open to all students who can qualify. Credits for ensemble may be used as electives in junior and senior years.

1E. UNIVERSITY CHOIR.—Each semester. Cr. ½.

Mixed voices. Membership limited to fifty. Admission by try-out only.

Sacred music sung a capella. Meets every day. Attendance required. Tour each spring.

2E. THE UNIVERSITY CHORUS.—Each semester. Cr. ½.

The chorus is open to all students. It is required of all voice students, public music students, and students in elementary education. Regular attendance is obligatory.

A standard work is studied each semester. Two-hour weekly rehearsals are held.

3E. THE UNIVERSITY SYMPHONY ORCHESTRA.—Each semester. Cr. ½.

All students who play orchestral instruments are admitted after consultation with director.

Membership is required of all students of stringed instruments, at the discretion of the director of the violin section. Regular attendance at rehearsals and concerts is obligatory. The best standard orchestral compositions, symphonies, overtures, etc., are studied and publicly performed in concert. Full rehearsals are held Thursdays: 7:30-9:30 P. M.; sectional rehearsals as arranged.

4E. THE UNIVERSITY BAND.—Each semester. Cr. 0.

The Band is open to all students who can qualify. Attendance at rehearsals and performances is required. The Band takes part at all the football and basketball games as well as other activities. A two-hour weekly rehearsal is held.

5E. QUARTETTES, TRIOS, ETC.—No credit.

Groups of students selected from the Glee Clubs rehearse quartettes, trios, etc., under the instruction of the voice teacher and furnish special music for assembly and chapel exercises.

6E. CHAPEL CHOIRS.—No credit.

Groups of mixed voices lead the singing of the chapel service and also render suitable anthems.

MUSIC STUDY WITH CREDIT TOWARD THE BACHELOR OF ARTS DEGREE

Students in the College of Liberal Arts who desire to take training in Music may do so, without extra charge, under the following conditions:

The studies in Music listed below will be accepted for credit in the College of Liberal Arts toward the degree of Bachelor of Arts up to a total of 30 credit-hours, but not more than 2 credit-hours may be taken in either semester of the Freshman Year, nor more than 5 credit-hours in either semester of the Sophomore or Junior Year. Such students should select their work in approximately the following order: Music Courses 1, 2, 3, 4, 5, 6, 51, 52, 54, 55, 56, 59, 60, 101, 102, 105, 106, 107, 108, 115, 116, 151, 152, 153, 154.

Students who desire courses in Music mainly for general cultural education are advised to take their work in approximately the following order: Music 5, 6, 55, 56, 59, 60, 101, 102, 105, 106, 107, 108.

THE DEPARTMENT OF FOREIGN LANGUAGES AND LITERATURES

(French, German, Spanish—Greek, Latin)

ASSOCIATE PROFESSOR KISSLING, ASSISTANT PROFESSOR MILLER, MISS TALLMAN

FRENCH

MISS TALLMAN

Major: The minimum for a major is 24 credit hours. A pre-requisite is French 12, or the equivalent. Students majoring in French are advised to elect courses in European History.

Minor: A minor consists of a minimum of 12 hours. A prerequisite is French 12, or the equivalent.

COURSES IN FRENCH

1. FIRST SEMESTER FRENCH.—(A) Sem. 1. Cr. 3.
Study of pronunciation by means of phonetic symbols. Grammar taught inductively, with much conversation and dictation; daily written work.
2. SECOND SEMESTER FRENCH.—(A) Sem. 2. Cr. 3.
Study of grammar, with emphasis upon the verb; reading the simple texts.
Prerequisite: French 1, or 1 unit of high school French.
11. THIRD SEMESTER FRENCH.—(A) Sem. 1. Cr. 3.
Systematic review of grammar, with oral and written compositions. Study of irregular verbs. Reading of modern authors.
Prerequisite: French 2, or 2 units of high school French.
12. FOURTH SEMESTER FRENCH.—(A) Sem. 2. Cr. 3.
Continuation of French 11.
Prerequisite: French 11, or its equivalent.
51. SURVEY OF FRENCH LITERATURE.—(B) Sem. 1. Cr. 3.
Study of the origins of the French language and the development of literature with detailed study of seventeenth century literature. Collateral assignments, reading in class of representative selections.
Prerequisite: French 12, or its equivalent.
Alternates with French 61.
(Omitted 1930-31.)
52. SURVEY OF FRENCH LITERATURE.—(B) Sem. 2. Cr. 3.
Study of eighteenth and nineteenth century literature.
Prerequisite: French 51, or its equivalent.
Alternates with French 62.
(Omitted 1930-31.)
61. NINETEENTH CENTURY LITERATURE.—(B) Sem. 1. Cr. 3.
Study of various periods of nineteenth century literature, with rapid reading of representative novels, plays, and poetry.
Prerequisite: French 12, or its equivalent.
Alternates with French 51.
61. NINETEENTH CENTURY LITERATURE.—(B) Sem. 2. Cr. 3.
Continuation of French 61.
Prerequisite: French 61.
Alternates with French 52.
63. COMPOSITION AND CONVERSATION.—(B) Sem. 1. Cr. 2.
Written composition based on connected reading, with emphasis on the use of idioms. Conversation based on topics of current interest.
Prerequisite: French 12, or its equivalent.
64. ADVANCED COMPOSITION AND CONVERSATION.—(B) Sem. 2. Cr. 2.
Original oral and written compositions, and much practice in conversation.
Prerequisite: French 63.

111. SEVENTEENTH CENTURY CLASSIC DRAMA.—(C) Sem. 1. Cr. 3.
Study of the development of classic form in the plays of Corneille and Racine and of Moliere's art in depicting contemporary manners.
Prerequisite: Eighteen hours of French.
Alternates with French 161.
112. EIGHTEENTH CENTURY LITERATURE.—(C) Sem. 2. Cr. 3.
Study of eighteenth century philosophy and literature.
Prerequisite: Eighteen hours of French.
Alternates with French 162.
161. FRENCH NOVEL OF NINETEENTH CENTURY.—(D) Sem. 1. Cr. 3.
Novel studied, and development traced by movements within century.
Prerequisite: Eighteen hours of French.
Alternates with French 111.
162. MODERN FRENCH DRAMA.—(D) Sem. 2. Cr. 3.
Plays of Becque, Bataille, Hervieu, Brieux, Rostand, Curel, etc.
Prerequisite: Eighteen hours of French.
Alternates with French 112.
191. THE TEACHING OF FRENCH.—(D) Sem. 1. Cr. 2.
A teacher's course. Review of phonetic symbols to crystallize knowledge of pronunciation. Outlines of grammar are made and difficulties encountered in high school teaching are discussed. Methods studied and text-books examined for high school use.
Prerequisite: Eighteen hours of the major in French. Required of all who expect to teach French. May not be used for credit toward major or minor in French.

GERMAN

ASSISTANT PROFESSOR MILLER

Major: The minimum for a major is 24 credit hours. A prerequisite is German 12, or the equivalent.

Minor: A minor requires 12 credit hours. A prerequisite is German 12, or the equivalent.

Students who are preparing to teach German are advised to take courses 51, 52.

COURSES IN GERMAN

1. FIRST SEMESTER GERMAN.—(A) Sem. 1. 0+5, Cr. 3.
Designed primarily to give the student a thorough knowledge of the elements of German grammar, and to enable him to read easy German prose at sight and understand simple spoken German. The direct method of instruction is employed in these courses.
2. SECOND SEMESTER GERMAN.—(A) Sem. 2. 0+5, Cr. 3.
Continuation of German 1.
Prerequisite: German 1; or the equivalent.
11. THIRD SEMESTER GERMAN.—(A) Sem. 1. Cr. 3.
Intermediate German. Includes selected readings from modern prose writers and the classical poets, a review of German grammar, practice in writing and speaking German, and reports on outside reading.
Prerequisite: German 2, or the equivalent.

12. FOURTH SEMESTER GERMAN.—(A) Sem. 2. Cr. 3.
Continuation of German 11.
Prerequisite: German 11, or the equivalent.
51. GERMAN COMPOSITION.—(B) Sem. 1. Cr. 2.
Translations, review of grammar, written and oral reports on outside reading, letter writing.
Prerequisite: German 12, or the equivalent.
Given in alternate years.
52. ADVANCED GERMAN COMPOSITION.—(B) Sem. 2. Cr. 2.
Continuation of German 51.
Prerequisite: German 51, or the equivalent.
Given in alternate years.
81. ADVANCED GERMAN READING COURSE.—(B) Sem. 1. Cr. 3.
An introduction to the classical period of German literature. Selections especially from the works of Lessing, Goethe, and Schiller are read and discussed in class, while lectures and supplementary outside readings aim to give the student a general view of this important literary period.
Prerequisite: German 12, or the equivalent.
82. ADVANCED GERMAN READING COURSE.—(B) Sem. 2. Cr. 3.
Continuation of German 81.
Prerequisite: German 81, or the equivalent.
101. GOETHE.—(C) Sem. 1. Cr. 2.
See note under German 106.
Prerequisite: German 82, or the equivalent.
(Omitted 1930-31)
102. GOETHE.—(C) Sem. 2. Cr. 2.
Continuation of German 101.
See note under German 106.
Prerequisite: German 101, or the equivalent.
(Omitted 1930-31)
105. LESSING.—(C) Sem. 1. Cr. 3.
See note German 106.
Prerequisite: German 82, or the equivalent.
106. SCHILLER.—(C) Sem. 2. Cr. 3.
German 101, 102, 105, and 106 offer the reading of works characteristic of the different periods of the authors' lives, also lectures and outside readings. The courses are conducted mainly in German.
Prerequisite: German 82, or the equivalent.
111. HISTORY OF GERMAN LITERATURE, to 1800.—(D) Sem. 1. Cr. 2.
Lectures, outside reading, and reports.
Prerequisite: Twelve hours of major in German.
Alternates with German 151.
(Omitted 1930-31)
112. HISTORY OF GERMAN LITERATURE, since 1800.—(D) Sem. 2. Cr. 2.
The purpose of courses 111 and 112 is to give the student a comprehensive view of the history of German literature. The lectures are both historical and critical in nature. The outside reading is chosen from representative

products of the various periods, especially of those periods which are not represented in other parts of the German course.

Prerequisite: German 111.

Alternates with German 152.

(Omitted 1930-31)

151. NINETEENTH CENTURY LITERATURE.—(D) Sem. 1. Cr. 2.

Class reading, lectures, and outside reading.

The authors especially studied in this course are Kleist, Uhland, and Heine. The lectures deal with the Romantic Movement and the works of Kleist, Uhland and the Swabian School, Young Germany, Heine, Eichendorff. The outside reading is taken from contemporary narrative and critical prose.

Prerequisite: Twelve hours of major in German.

Alternates with German 111.

152. NINETEENTH CENTURY LITERATURE.—(D) Sem. 2. Cr. 2.

Continuation of German 151

The classroom reading this course is taken from the dramatic works of Grillparzer, Hebbel, Ludwig, Hauptmann, and Sudermann; the lectures deal mainly with the novel and the drama since the middle of the century; while the outside reading is taken from modern prose fiction.

Prerequisite: German 151.

Alternates with German 112.

182. GOETHE'S FAUST, Parts I and II.—(D) Sem. 2. Cr. 2.

Class reading, lectures and outside reading.

The major portion of this course is devoted to the interpretation of the two parts of the drama.

Prerequisite: Twelve hours of major in German.

(Omitted 1930-31)

191. THE TEACHING OF GERMAN.—(D) Sem. 1. Cr. 2.

A teacher's course. Discussion of methods and materials; review of grammar; oral and written reports on outside readings.

May not be used for credit toward major or minor in German.

Prerequisite: Eighteen hours of major in German.

(Given on sufficient demand.)

COURSES IN GREEK

(Omitted 1930-31)

1-2. BEGINNING GREEK.—(B) Yr. Each semester. Cr. 2.

The course is offered for those who have had no opportunity to study Greek in the high school and for those who wish to review the elements of the Greek language. The approach is by simple grammar and composition. The relation of English words to Greek is stressed, with informal lectures on the significance of ancient Greece to the modern world and its contributions to the cultivated and scientific thought of today.

11-12. INTERMEDIATE GREEK.—(B-C) Yr. Each semester. Cr. 3.

Review and amplification of Greek forms and constructions. Further study of the significance of Hellenic thought to modern civilization. The

emphasis will be placed on the appreciation of the thought-content. Suitable texts will be used for Xenophon and for selections from Homer. Assigned readings in translation.

Prerequisite: Greek 2, or the equivalent.

61. INTRODUCTION TO PLATO.—(C) Sem. 1. Cr. 3.

Study and analysis of Plato's *Apology* and *Crito*, accompanied by outside reading in the translation of several minor dialogs. Collateral readings on Plato's significance in the history of human thought. Socrates and the Socratic Method. Intensive reviews of important parts of grammar according to Goodwin's *Greek Grammar*.

Prerequisite: Greek 12, or the equivalent.

62. GREEK DRAMA.—(C) Sem. 2. Cr. 3.

The class will read Euripides' *Medea* and Sophocles' *Antigone*. Study of Greek versification and continuation of the reviews in Goodwin's *Grammar*. Collateral readings in translations of several Greek plays.

Prerequisite: Greek 12, or the equivalent.

LATIN

ASSOCIATE PROFESSOR KISSLING

Major: The minimum for a major is 24 credit hours. A prerequisite is Latin 12. Students majoring in Latin are advised to include History 122.

Minor: The minimum for a minor is 12 credit hours. A prerequisite is Latin 12.

COURSES IN LATIN

11. INTERMEDIATE LATIN: CICERO.—(A) Sem. 1. Cr. 3.

Several speeches of Cicero will be read. The study of the text will be accompanied by a review of forms and syntax, to enable the student to ground himself in the fundamentals of the Latin language.

Prerequisite: Two units of high school Latin.

12. INTERMEDIATE LATIN: VIRGIL.—(A) Sem. 2. Cr. 3.

This course introduces the student to Latin poetry and to the greatest of Roman poets. The emphasis is on the understanding and interpretation of the selections read. Intended for students who have completed three years of high school Latin.

Prerequisite: Latin 11, or the equivalent.

51. CICERO'S DE SENECTUTE AND DE AMICITIA.—(B) Sem. 1. Cr. 3.

The practical problems here discussed by Cicero are of perennial interest and deal with matters of ever-present human and social significance. The course aims to give the student a better understanding of Latin constructions and to interpret Cicero as a man of letters.

Prerequisite: Latin 12, or the equivalent.

Alternates successively with Latin 61 and 71.

(Omitted 1930-31.)

52. LATIN PROSE COMPOSITION.—(B) Sem. 2. Cr. 3.

Review and amplification of the principles of Latin grammar with practice in the writing of Latin. The course aims to assist the student in understanding Latin more readily by giving him a better knowledge of forms, constructions, and words.

Prerequisite: Latin 12, or the equivalent.

Alternates successively with Latin 62 and 72.

(Omitted 1930-31.)

55. OVID.—(B) Sem. 1. Cr. 2.

Ovid reflects in his poetry the spirit of the proud and prosperous Age of Augustus. The course is based largely on Ovid's *Metamorphoses* with selections from his minor works.

Prerequisite: Latin 12, or the equivalent.

Alternates successively with 105 and 125.

(Omitted 1930-31.)

61. LIVY.—(B) Sem. 1. Cr. 3.

The course, introducing the student to Roman historical writing aims to develop the power to read Latin more readily by strengthening the student's knowledge of Latin construction and to bring before him Livy's graphic dramatic skill portraying historical events.

Prerequisite: Latin 12, or the equivalent.

Alternates successively with Latin 51 and 71.

(Omitted 1930-31.)

62. ROMAN COMEDY.—(B) Sem. 2. Cr. 3.

History of the rise and decline of Roman comic drama. From the extant plays the *Captivi* of Plautus and the *Phormio* of Terence will be selected for class study with the reading of several other plays in English translation.

Prerequisite: Latin 12, or the equivalent.

Alternates successively with Latin 52 and 72.

71. PLINY'S LETTERS.—(B) Sem. 1. Cr. 3.

Reading and interpretation of selected letters of the Younger Pliny, the contemporary and personal friend of the leading Roman historian, Tacitus. Study of the author and the character of his age.

Prerequisite: Latin 12, or the equivalent.

Alternates successively with Latin 51 and 61.

72. HORACE'S ODES AND EPODES.—(B) Sem. 2. Cr. 3.

Horace, the best known and most-quoted of Roman poets, of the Golden Age of Latin literature. Selections from the *Odes* and *Epodes* are studied in class, accompanied by the explanation of the meters used, with practice in the reading of the verse. The emphasis is on the literary interpretation of the poems with frequent illustrations from English literature.

Prerequisite: Latin 12, or the equivalent.

Alternates successively with Latin 52 and 62.

(Omitted 1930-31.)

76. VIRGIL'S ECLOGUES AND GEORGICS.—(B) Sem. 2. Cr. 2.

A study of Virgil's pastoral poetry. The artistic skill of the author in the portrayal of rural scenes. The influence of his poems on cultured thought.

Prerequisite: Latin 61, or the equivalent.
 Alternates successively with Latin 106 and 136.
 (Omitted 1930-31.)

101. CLASSICAL MYTHOLOGY.—(C) Sem. 1. Cr. 2.

The course aims to present to the student in an organized form the various legends and myths of early Greece and Rome, which constitute the rich treasure-house of fancy, sentiment, and thought from which the world's poets and thinkers, painters and sculptors have drawn inspiration and heightened power. Lectures and textbook, with special reference to English literature. No knowledge of a foreign language necessary.

(Omitted 1930-31.)

105. HORACE'S SATIRES AND EPISTLES.—(C) Sem. 1 and 2. Cr. 2.

Horace as a critic of literary and social life. The course aims to give a fuller background to Horace's life and times. The emphasis is on the elucidation of the thought.

Prerequisite: Latin 12, or the equivalent.

Alternates successively with Latin 55 and 125.

106. HORACE'S SATIRES AND EPISTLES.—(C) Sem. 2. Cr. 2.

Continuation of Latin 105.

Prerequisite: Latin 12, or the equivalent.

Alternates successively with Latin 76 and 136.

125. SENECA'S EPISTLES.—(C) Sem. 1. Cr. 2.

Reading and interpretation of the letters of a Roman statesman and man of letters who is as eminently representative of his times as Cicero is of an earlier century. Study of the leading ideas of Stoicism.

Prerequisite: Latin 61, or the equivalent.

Alternates successively with Latin 55 and 105.

(Omitted 1930-31.)

136. SURVEY OF LATIN LITERATURE.—(C) Sem. 2. Cr. 2.

The development of Latin Literature is traced throughout its course with emphasis on the representative writers in prose and verse. Greek influence on Roman thought. Study of Roman achievement in history, oratory, philosophy, satire, literary criticism, epos, epigram, lyric verse, etc., illustrated by selections from the leading authors in translation. Text, lectures, and reports.

Prerequisite: Latin 12, or the equivalent.

Alternates successively with Latin 76 and 106.

(Omitted 1930-31.)

160. ROMAN TRAGEDY.—(D) Sem. 2. Cr. 3.

Several of the extant tragedies of Seneca studied and interpreted in class. History and development of Roman tragedy with a consideration of the causes of its decline and extinction. Influence of Seneca on the dramatic art of the moderns.

Prerequisite: Latin 61, or the equivalent.

Alternates with Latin 172.

(Omitted 1930-31.)

172. CICERO'S TUSCULAN DISPUTATIONS.—(D) Sem. 2. Cr. 3.

An introduction to the study of Roman philosophy. Character of Roman philosophic thought and its relation to that of the Greek thinkers. The significance of Cicero for Roman philosophy.

Alternates with Latin 160.

(Omitted 1930-31.)

191. THE TEACHING OF LATIN.—(D) Sem. 1. Cr. 2.

A teacher's course. The principles of teaching applied to Latin together with a study of the subject-matter, texts, and organization of the high school course in Latin. Correlation with English; devices to stimulate interest, etc. The course includes practical work in teaching high school classes under competent supervision. Lectures and reports.

Prerequisite: 18 hours of Latin, including Latin 4.

(Given on demand.)

COURSES IN SPANISH

ASSOCIATE PROFESSOR KISSLING AND MISS TALLMAN

1. FIRST SEMESTER SPANISH.—(A) Sem. 1. Cr. 3.

This course deals with the elements of Spanish grammar and aims primarily to give the student a reading knowledge of Spanish. Special attention is devoted to pronunciation, dictation, translation, and practice in speaking.

2. SECOND SEMESTER SPANISH.—(A) Sem. 2. Cr. 3.

Continuation of Spanish 1. The same textbook is used, the more difficult constructions are studied and easy Spanish authors are read in class.

Prerequisite: Spanish 1, or one unit of high school Spanish.

11-12. THIRD AND FOURTH SEMESTER SPANISH.—(A) Yr. Each semester. Cr. 3.

Systematic review of grammar with exercises. Emphasis will be placed on the reading and appreciation of modern Spanish authors, with the further purpose of developing the student's vocabulary, his knowledge of Spanish idioms and the more difficult uses of the subjunctive.

Prerequisite: Spanish 2, or two units of high school Spanish.

51. COMPOSITION AND CONVERSATION.—(B) Sem. 1. Cr. 3.

Designed to train the student to speak and write Spanish with some facility. Vocabulary of daily life and free composition.

Prerequisite: Spanish 12, or the equivalent.

52. COMMERCIAL SPANISH.—(B) Sem. 2. Cr. 3.

A course designed for students who may wish to make practical use of Spanish in business or commercial fields. A study will be made of various types of commercial correspondence and standard business forms.

Prerequisite: Spanish 12, or the equivalent.

61. SURVEY OF SPANISH LITERATURE.—(B) Sem. 1. Cr. 3.

An outline of the principal literature movements with readings from standard authors. The course will cover the period from the eighteenth century and neo-classicism to contemporary literature.

Prerequisite: Spanish 12, or the equivalent.

(Omitted 1930-31.)

62. SURVEY OF SPANISH LITERATURE.—(B) Sem. 2. Cr. 3.

A continuation and completion of Spanish 61. The period covered will extend from the origins of Spanish literature to the eighteenth century.

Prerequisite: Spanish 61, or the equivalent.

(Omitted 1930-31.)

THE DEPARTMENT OF GEOLOGY

MR. MEYER

The two interrelated branches of earth science, Geology and Geography, deal with the natural phenomena of the earth, ancient and modern, its materials and native resources, its internal structure and external configuration, and the influence of physical environment upon the activities of man.

The field of study being the earth itself, Geology and Geography are recognized as being inherently out-of-door sciences. The region about Valparaiso is eminently suited for local field excursions in the study of physiographic and industrial phenomena. These include the Valparaiso moraine and continental divide, near the crest of which the city is located; the present Lake Michigan and ancestral Lake Chicago beaches; the scenic Lake Michigan dunes, now in part made into a state park; and the industrial Calumet region, now ranking among the fastest growing industrial sections and one of the great steel centers in the United States.

The courses in this department may be elected by students having any of the following objectives in mind:

1. To fulfill teaching option requirements.
2. To acquire a general knowledge of the earth as part of their aesthetic, cultural, and civic training.
3. To supplement training in related fields of major and minor studies.
4. To provide professional training for teaching the earth sciences, or preparing for domestic or foreign trade service.

Major and Minor: Students electing major or minor work in this department should arrange their program of studies with the aid of their adviser as early as possible. The usual sequence of courses is as follows: Geology 51, 52, 56, 107, 122, 125, 129, 133, 136.

COURSES IN GEOLOGY

51. PHYSIOGRAPHY.—(B) Sem. 1. 3+3, Cr. 4.

A general information course in earth science, dealing primarily with the agencies and processes involved in the origin and modification of the surface features of the earth. Laboratory topographic map study interpretative of physiographic features. Field trips.

Laboratory fee \$1.00.

52. GENERAL GEOLOGY.—(B) Sem. 2. 3+3, Cr. 4.

A treatment of the fundamental principles of physiographical, stratigraphical, structural, and dynamical geology. Consideration of the theoretical phases, practical applications, and historical development of the science. Laboratory identification of the more common minerals, rocks, and fossils; con-

struction of profile and structure sections; interpretation of topographic maps and geologic folios. Collateral readings. Field trips.

Prerequisite: Geology 51.

Laboratory fee \$1.00.

56. ECONOMIC GEOGRAPHY.—(B) Sem. 2. 3+0, Cr. 3.

A study of the adaptations of agricultural, industrial, and commercial activities of man to earth environment. Visit to Chicago industrial establishments.

Deposit \$1.00.

61. ENGINEERING GEOLOGY.—(B) Sem. 1. 3+3, Cr. 4.

A presentation of the principles of geology, featuring elements applying to the problems and practices of the engineer. "Elements of Engineering Geology" by Ries and Watson furnishes the basis for the work of the course, treated under the following heads: The important rock-making minerals; rocks and their relations to engineering work; structural features and metamorphism; rock-weathering and soils; development, work, and control of rivers; underground water; landslides, land subsidence and their effects; relation of wave action and shore currents to coasts and harbors; origin and relation of lakes and swamps to engineering work; origin, structure, and economic importance of glacial deposits; road foundations and road materials; ore deposits. Class, laboratory, and field studies.

Laboratory fee \$1.50.

107. WORLD GEOGRAPHY.—(C) Sem. 1. 3+0, Cr. 3.

An introduction to the natural and cultural factors and phenomena of the various landscapes of the earth, showing the interrelationships that exist among them, as well as pointing out specific adjustments which man has made in response to the influences of climate and other elements of the environment.

Deposit \$1.00.

122. CRYSTALLOGRAPHY AND MINERALOGY.—(C) Sem. 2. 2+3, Cr. 3.

An introduction to the principles and concepts of crystallography, supplemented by a study of the elements of mineralogy. Laboratory examination of crystal models and natural crystals, blowpipe analysis, and identification of the more common minerals of economic and scientific importance.

Prerequisite: Geology 52, or Chemistry 51.

Laboratory fee \$3.00.

125. GEOGRAPHY OF NORTH AMERICA.—(C) Sem. 1. 3+0, Cr. 3.

A regional treatment of the environmental factors which control or influence human development on the North American continent, as based chiefly on a geographic survey of its physiographic provinces.

Alternates with Geology 129.

Deposit \$0.50.

(Omitted 1930-31.)

129. GEOGRAPHY OF EUROPE.—(C) Sem. 1. 3+0, Cr. 3.

A regional treatment, basically climatic and topographic, showing the influences of the diversified types of climate, of land, sea, coast, and drainage forms on the social, political, industrial, and commercial life of the people of Europe. Some of the topics considered are: the relative importance of

topography in the interpretation of European history and in the determination of the routes of commerce and of military maneuvers, and the significant part which the "strategy of minerals" plays in determining the political complexion of the European continent.

Alternates with Geology 125.

132. THE TEACHING OF GEOGRAPHY IN THE ELEMENTARY SCHOOL.

(C) Sem. 2. 2+0, Cr. 2.

Topics: The field of geography, criteria for selecting subject matter, brief history of geography, change in the content of geography and methods of instruction, the several present-day types of methods, illustrative material in geography teaching, using local types in geography teaching, practical work in organizing geographic materials as problems, projects, and type studies.

(Given upon sufficient demand.)

136. ECONOMIC AND POLITICAL GEOLOGY.—(D) Sem. 2. 2+0, Cr. 2.

A study of the origin, geological occurrence, and geographical distribution of the more economically important mineral and rock resources, together with a consideration of the problems of their exploration, exploitation, valuation and conservation. The political aspect deals with the control of the mineral reserves of strategic importance and the resulting international relations in peace time and in war.

THE DEPARTMENT OF HEALTH AND PHYSICAL EDUCATION

The aims of the department are: (1) To teach the fundamentals of health and sports and to implant habits of health, clean living, physical activity, and sportsmanship; (2) by means of competitive games and sports, to confirm the student in these habits so that they may persist throughout life; and (3) to train play leaders and teachers of health and physical education.

Equipment—A building for the Department of Health and Physical Education is planned for erection this year. On the ground floor are the classrooms; the main Gymnasium, 120 by 75 feet; the auxiliary gymnasium, 60 by 40 feet, with equipment including the usual apparatus; dressing rooms, showers, and lockers, designed for the accommodation of 1,500 students; and the swimming pool, 75 by 35 feet, with the visitors' gallery. On the second floor are the offices, the visitors' gallery of the main gymnasium, and hand ball courts. The outdoor facilities include the university athletic field, laid out in football gridiron, baseball diamond, track and tennis courts.

Physical Examinations—Upon entering the University all students are given a physical examination which consists of physical diagnosis, measurements, and strength tests. In case of abnormality, weakness, or defect in constitution, remedial measures are advised to secure improvement of these conditions. Students who cannot engage in normal class work on account of physical disability are given special care or corrective work to suit their needs. Special examinations are given whenever needed. In no case is the individual record given publicity.

Exemptions and Deferments—All applications for deferment of or exemption from physical training, must be made at the office of the

Director of Health and Physical Education for men. Women will apply to the Director of Health and Physical Education for women. In no case will permission be granted to defer work for more than one semester at a time and no deferred work will be allowed to extend into the senior year.

Exemptions are granted to—(1) Students who are physically unfit, as certified by the University physician; (2) Those who enter the University with college credits sufficient to give them senior standing; (3) Students from institutions of college rank who have taken accredited courses in physical education; (4) Adult special students over 21 years of age who are not candidates for degrees.

Students who are not physically fit to participate in the short program are required to enroll in corrective or health classes.

Deferments are permitted in the case of self-supporting students when the hours of labor actually conflict with hours of required work.

Absences not excused within a week of their occurrence are considered as unexcused. Unexcused absences are made up in the ratio of 2 for 1. Excused absences are made up in the ratio of one for one.

A. MEN'S DIVISION OF HEALTH AND PHYSICAL EDUCATION

1. REQUIRED PHYSICAL EDUCATION

Courses in P. E. 1, 2, 3, 4, 51, 52, are required of all freshman and sophomore students. Participation in Inter-collegiate Athletics during the playing season may be substituted, with the consent of the Director, for above courses exclusive of P. E. 3 and 4.

The regulation indoor suit for men consists of a white shirt, white running pants, supporter, sweat socks, and rubber soled shoes.

The gymnasium fee required of all students is \$2.50 per semester. Cubicles with combination lock are assigned each student. A deposit of one dollar is required for this lock, refund being made when the student returns the lock. A charge of fifty cents each semester for towel service is required. These items, however, are contingent upon the completion of the Physical Education building during the scholastic year.

COURSES OF REQUIRED PHYSICAL EDUCATION

1-2M. SPORTS AND GYMNASTICS.—(A) Yr. Each Semester. 0+3. Cr. $\frac{1}{2}$.

Conferences interpreting for each student the records of the physical examination. The program comprises marching, calisthenics, apparatus work, and such sports as speed ball, cage ball, volley ball, cross-country running, tennis, basket ball, track events, boxing, wrestling, hand ball, and indoor games.

3-4M. INDIVIDUAL HEALTH PROGRAM.—(A) Yr. Each semester. 1+0. Cr. $\frac{1}{2}$.

Includes the study of the fundamentals of personal and public health. The aim of the course is to implant habits of health and clean living and to create a wholesome attitude toward individual, family, and school.

51-52M. SURVEY OF GAMES AND SPORTS.—(B) Yr. Each semester. 0+3, Cr 0.

Includes a survey and practice of major and minor sports with a view toward electing one or more during the third year. The sports include football, basketball, baseball, track, tennis, golf, boxing, wrestling, apparatus work and tumbling, swimming, hand ball, cross-country running, and volley ball.

2. INTRAMURAL SPORTS

The participation in Intramural Sports is voluntary and cannot be substituted for the required class program.

It is the function of this section to encourage the entire student body to participate in organized athletic sport and wholesome active recreation. The Department provides facilities for such competition and recreation; organizes and promotes competition between student groups and individuals; and endeavors to foster a spirit of fair play and sportsmanship among participants and spectators.

Interclass, inter-departmental, inter-society or individual competition is organized in the following sports: Football, basketball, track and field events, baseball, playground ball, cross-country, tennis, golf, swimming events, skating events, skiing events, ice hockey, boxing, wrestling, hand ball, squash tennis, speed ball, cage ball, and gymnastics. Team and individual winners are presented official awards adopted by this section of the Department.

Intramural sports are under the control of the Department.

3. INTERCOLLEGIATE ATHLETICS

The University is a member of the Indiana Intercollegiate Conference. The intercollegiate sports promoted in this section are: Football, basket ball, baseball, track, cross-country, tennis, golf, swimming, boxing, wrestling, and gymnastics.

No student may be a member of an intercollegiate team unless he is eligible in accordance with the regulations laid down in the Constitution and By-Laws of the Indiana Intercollegiate Conference, i. e. unless he (1) has been at the University one year, (2) has no unsatisfied failures, conditions, or incompletes, (3) has received an average of at least C in grade-points in the work of the previous semester, and (4) is carrying full work.

Intercollegiate sports are under the control of the Department.

4. TEACHER TRAINING IN HEALTH AND PHYSICAL EDUCATION

Major: 24 credits, exclusive of the regular requirements of three years of practical work in Health and Physical Education.

Minor: The minor consists of 12 credits, exclusive of above requirement.

A laboratory fee of one dollar is charged for each course for supplies used in the teaching of the various courses.

CURRICULUM OF HEALTH AND PHYSICAL EDUCATION FOR THE TEACHING OF PHYSICAL EDUCATION MEN

(Leading to the degree of Bachelor of Arts)

Freshman Year

Physical Education students take the work of the regular Liberal Arts freshman year.

Sophomore Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
	Sophomore Constant	6		Sophomore Constant	6
Psych. 51.	General Psychology	3	Ed. 52.	Educational Psychology	3
Zool. 51.	General Zoology	4	Zool. 120.	Anatomy and Physiology	5
	Elective	3		Elective	2
		—			—
		16			16

Junior Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
P.E. 105M.	Football	3	P.E. 106M.	Basketball	3
P.E. 113M.	Kinesiology	3	P.E. 112M.	Gymnastics	2
P.E. 117M.	Minor Sports	2	P.E. 114M.	Advanced Kinesiology	3
Ed. 113.	History of Education	3	Ed. 118.	Secondary Education	3
	Elective	5		Elective	5
		—			—
		16			16

Senior Year

(Offered 1931-32)

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
P.E. 157M.	Track and Field Athletics	2	P.E. 158M.	Baseball	2
P.E. 161M.	Problems in Organization and Administration	3	P.E. 164M.	Physical Diagnosis and Student Health	2
P.E. 171M.	Hygiene	3	P.E. 172M.	Hygiene as related to Physical Education	2
P.E. 191M.	Teaching of Physical Edu- cation	2	Ed. 192M.	Supervised Teaching (Coaching)	3
Ed. 151.	Principles of Teaching	3		Elective	7
	Elective	3			—
		—			—
		16			16

COURSES IN HEALTH AND PHYSICAL EDUCATION MEN

105M. FOOTBALL.—(C) Sem. 1. 2+2, Cr. 3.

Theory and practice. Topics typical of the work in this course are: Offense, defense, backfield, line, open field running, blocking, tackling, charging, use of hands, pivoting, kicking, formations, strategy, generalship, types of play for varying situations, rules and their application, sportsmanship.

Alternates with Physical Education 157.

106M. BASKET BALL.—(C) Sem. 2. 2+2, Cr. 3.

Theory and practice; history. Examples of the questions considered are: Styles of play, equipment, shooting, dribbling; pivots, defense, offense, short pass, long pass, types of play for varying conditions; outline of practice sessions, duties of officials, making schedules.

Alternates with Physical Education 158.

111-112M. GYMNASTICS.—(C) Yr. Sem. 2. 1+6, Cr. 2.

The purpose of this course is to acquaint the student with the theory and practice of gymnastics. It covers the significance of gymnastics in a program of physical education, the methods of exercising, principles of organizing daily work; outlines for different groups of pupils in elementary and high schools, college and university; methods of teaching; gymnastic activities and nomenclature.

113M. KINESIOLOGY.—(C) Sem. 1. 3+0, Cr. 3.

An understanding and an appreciation of the structure of the body. Necessary for the individual who expects to make physical education his life work.

Alternates with Physical Education 171.

114M. KINESIOLOGY.—(C) Sem. 2. 3+0, Cr. 3.

Advanced study of muscle action and joint mechanics concerned in common postural defects and joint injuries. A course fundamental to the understanding of the therapeutic value of various physical activities.

Alternates with Physical Education 172.

Prerequisite: Physical Education 113.

117-118M. MINOR SPORTS.—(C) Yr. Sem. 1. 1+2, Cr. 2.

Swimming, boxing, wrestling and tennis are the principal activities in this group and are taught from the standpoint of the man who expects to make physical education his profession. The capable teacher must also be skilled in the thing he teaches. Consequently each student is expected to attain to a mastery of these games.

157M. TRACK AND FIELD ATHLETICS.—(D) Sem. 1. 1+2, Cr. 2.

The nature of the course is indicated by the following topics: Organizing and developing a team; instructional work from novice athletes to finished competitors; selection of participants; demonstrations in sprints, hurdles, vaulting, weights, relays, correct and incorrect forms; cross country running, interesting squads, practice schedules, judgment of pace.

Alternates with Physical Education 101.

158M. BASEBALL.—(D) Sem. 2. 1+2, Cr. 2.

Theory and practice. Fundamentals, throwing, conditioning, battery, bunting, base running, positions of catcher, pitcher, etc. A few of the topics considered are: Methods of playing each position, team play, individual play, psychology of the game, high school and college baseball.

Alternates with Physical Education 102.

161M. PROBLEMS IN ORGANIZATION AND ADMINISTRATION.—(D) Sem. 1. 3+0, Cr. 3.

These are approached from the viewpoint of the grade school, college, university, community, state and national government. Such questions are

considered as the following: Local and state and national and foreign systems of physical education; laws pertaining to health, hygiene, and welfare; powers, duties and relations of boards of control; finances; records; reports; equipment, buildings and grounds; management of contests; awards, honors, failures, eligibility rules; courses of study, textbooks, and library materials.

164M. PHYSICAL DIAGNOSIS AND STUDENT HEALTH.—(D) Sem. 2. 2+0, Cr. 2.

171M. HYGIENE.—(D) Sem. 1. 3+0, Cr. 3.

Major problems of hygiene and public health will be covered. This will include a discussion of the cause, mode of transmission, and means of prevention of the common and important communicable diseases, and the scope and methods in social hygiene, mental hygiene, school hygiene, and material hygiene.

Alternates with Physical Education 113.

172M. HYGIENE AS RELATED TO PHYSICAL EDUCATION.—(D) Sem. 2. 2+0, Cr. 2.

Practical application of knowledge gained from Physical Education 171 to the field of physical education of a whole. Physical education should be considered as a field in which great good may be accomplished in the community in which the educator works.

Alternates with Physical Education 114.

191M. THE TEACHING OF PHYSICAL EDUCATION.—(D) Sem. 1. 1+2, Cr. 2.

A teacher's course. The distinctive rules of pedagogy that are to be followed by the teacher of Physical Education in carrying out the purpose of his work. The teaching of natural and formal gymnastics.

B. WOMEN'S DIVISION OF HEALTH AND PHYSICAL EDUCATION

1. REQUIRED PHYSICAL EDUCATION

Courses in P. E. 1, 2, 3, 4, 51, 52, are required of all freshman and sophomore students.

Students are required to wear regulation gymnasium suits which may be procured through the Department upon enrollment in the classes. The gymnasium fee is \$2.50 each semester. It is required of every student.

COURSES OF REQUIRED PHYSICAL EDUCATION

1-2W. SPORTS AND GYMNASTICS.—(A) Yr. Each semester. 0+3, Cr. ½.

Conferences interpreting for each student the records of the physical examination. Individual and group work based on the findings of the examination. The program embraces field hockey, volley ball, soccer, and tennis in the fall; basket ball and fundamental training in physical skills in the winter; baseball, track, and field events, archery, and remedials in the spring.

3-4W. INDIVIDUAL HEALTH PROGRAM.—(A) Yr. Each semester. 1+0, Cr. ½.

Includes a study of the fundamentals of personal and public health. Also class hours or conference periods for the discussion of health reports, charts, correction of remediable defects, absences due to illness, healthful mental growth and healthful development of the emotional and social life of the individual.

51-52W. SURVEY OF GAMES AND SPORTS.—(B) Yr. Each semester. 0+2, Cr. 0.

Includes a knowledge and practice of major and minor sports with a view toward electing one or more during the third year. The sports include, hockey, soccer, volley ball, tennis, basketball, field games, track and field events, archery, and baseball.

2. INTRAMURAL SPORTS FOR WOMEN

The Women's Athletic Association co-operates with the Department in the conduct of women's activities. "Sports-for-all" is the objective of the association. The activities are numerous and diverse. They include hockey, soccer, volley ball, tennis, swimming, basket ball, track and field events, archery, baseball, hiking, and skating.

3. TEACHER TRAINING IN HEALTH AND PHYSICAL EDUCATION

Major: 24 credits, exclusive of the regular requirement of three years of practical work in Health and Physical Education.

Minor: The minor consists of 12 credits, exclusive of above requirement.

A laboratory fee of one dollar is charged for each course for supplies used in the teaching of the various courses.

CURRICULUM OF HEALTH AND PHYSICAL EDUCATION FOR THE TEACHING OF PHYSICAL EDUCATION WOMEN

(Leading to the degree of Bachelor of Arts)

Freshman Year

Physical Education students take the work of the regular Liberal Arts freshman year.

Sophomore Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
Sophomore Constant.....		6	Sophomore Constant.....		6
P. E. 53W. Physical Education			P. E. 54W. Physical Education		
Technique	2		Technique	2	
Psych. 51. General Psychology	3		Ed. 52. Educational Psychology...	3	
Zool. 51. General Zoology	4		Zool. 120. Anatomy and Physiology. 5		
Elective	1				
		—			—
		16			16

Junior Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
P. E. 103W. Physical Education			P. E. 104W. Physical Education		
Technique	2		Technique	2	
P. E. 105W. Recreational Leadership..	2		P. E. 106W. Recreational Leadership..	2	
P. E. 113W. Kinesiology	3		P. E. 114W. Kinesiology	3	
Ed. 113. History of Education.....	3		Ed. 118. Secondary Education	3	
Chem. 51. General Chemistry	4		Chem. 52. Inorganic Chemistry	4	
Elective	2		Elective	2	
		—			—
		16			16

Senior Year

(Offered 1931-32)

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
P.E. 153W.	Physical Education Technique	2	P.E. 154W.	Physical Education Technique	2
P.E. 191W.	Teaching of Physical Education	2	Ed. 192.	Supervised Teaching (Coaching)	3
H.E. 135.	Home Nursing	2	*Elective		11
Ed. 151.	Principles of Teaching... 3				
	*Elective	7			
		—			—
		16			16

COURSES IN HEALTH AND PHYSICAL EDUCATION
WOMEN

53-54W. PHYSICAL EDUCATION TECHNIQUE.—(B) Yr. Each semester. 1+2, Cr. 2.

Required of all sophomores taking the semi-professional course in physical education.

103-104W. PHYSICAL EDUCATION TECHNIQUE.—(C) Yr. Each semester. 1+2, Cr. 2.

Required of all juniors taking the semi-professional course.
Alternates with Physical Education 153-154.

105W. RECREATIONAL LEADERSHIP.—(C) Sem. 1. 1+2, Cr. 2.

Required of all juniors taking the semi-professional course. Psychology of play; practice in games suitable to different ages; organization, equipment, and management of playgrounds. Practice in leading play activities in grade schools.

106W. RECREATIONAL LEADERSHIP.—(C) Sem. 2. 1+2, Cr. 2.

Community recreation in its relation to mental hygiene and social attitudes—girls' clubs, etc. Camp leadership, with emphasis on camp craft, wood craft, and nature study. Open to juniors and seniors majoring in education.

113-114W. KINESIOLOGY.—(C) Yr. Each semester. 3+0, Cr. 3.

A study of the framework of the human body, the mechanics of the movable parts, and the means of their voluntary control. The action of joints and the muscles is studied in the natural movements of daily life and in the organized activities, in gymnastics, and in the sports.

153-154W. PHYSICAL EDUCATION TECHNIQUE.—(D) Yr. Each semester. 1+2, Cr. 2.

Required of seniors taking the physical education major.
Alternates with Physical Education 103-104.

*The student will choose another major and may select the following as her elective courses: H.E. 151, Nutrition and Dietetics; H.E. 153, Child Care; Bot. 115, Bacteriology; Bot. 180, Genetics.

191W. THE TEACHING OF PHYSICAL EDUCATION.—(D) Sem. 1. 1+2,
Cr. 2.

A teacher's course. The distinctive rules of pedagogy that are to be followed by the teacher of physical education in carrying out the purpose of her work. The teaching of natural and formal gymnastics.

THE DEPARTMENT OF HOME ECONOMICS

MISS SEEBACH

The courses of instruction given in this Department are planned to meet the needs of the following groups: (1) Students who wish to prepare themselves for home making; (2) students who wish to prepare themselves for teaching Home Economics in secondary schools.

Students who wish to take the work in home making will consult the adviser. Programs will be arranged to meet the special needs of such students.

THE CURRICULUM FOR TEACHERS OF HOME ECONOMICS

The courses for the freshman year are the same as those prescribed for all students in the College of Liberal Arts.

Sophomore Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
Sophomore Constant.....		6	Sophomore Constant		6
H.E.	51. Art and Design.....	3	H.E.	52. Textiles and Clothing....	3
Chem.	51. General Chemistry	4	Chem.	52. Inorganic Chemistry	4
Psych.	51. General Psychology	3	Ed.	52. Educational Psychology...	3
		<u>16</u>			<u>16</u>

Junior Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
H.E.	101. Food Selection and Preparation	3	H.E.	102. Meal Planning and Table Service	3
H.E.	135. Home Nursing	2	H.E.	138. Woman and her Social Relations	1
Ed.	113. History of Education....	3	H.E.	142. The House	3
Chem.	103. Organic Chemistry	4	Ed.	118. Secondary Education....	3
Bot.	115. Bacteriology	4	Zool.	80. Elementary Physiology...	3
		<u>16</u>	Elective		<u>3</u>
					<u>16</u>

Senior Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
H.E.	151. Nutrition and Dietetics...	4	H.E.	156. Advanced Clothing Construction	3
H.E.	153. Child Care	2	H.E.	174. Home Management: Lecture	1
H.E.	155. Clothing Construction....	2	H.E.	176. Home Management: Cottage	3
H.E.	191. Methods of Teaching Home Economics	2	Ed.	192. Supervised Teaching	3
Ed.	151. Principles of Teaching...	3	Electives		<u>6</u>
P.E.	171. Hygiene	3			<u>16</u>
		<u>16</u>			

COURSES IN HOME ECONOMICS

51. ART AND DESIGN.—(B) Sem. 1. 0+6, Cr. 3.

A study of the principles of design and theory of color with their application to typical household arts problems involving selection and arrangement.

Laboratory fee \$3.00.

52. TEXTILES AND CLOTHING.—(B) Sem. 2. 0+6, Cr. 3.

A study of textiles including selection and identification of fabrics; fundamental principles of clothing construction and selection; color and design as applied to dress; handling of patterns, hygiene, care and repair of clothing.

Laboratory fee \$3.00.

101. FOOD SELECTION AND PREPARATION.—(C) Sem. 1. 0+6, Cr. 3.

Food preparation in meal combinations; principles of cookery; food values; preservation; marketing; analysis of standard products; simple table service.

Prerequisite: Chemistry 51.

Laboratory fee \$7.50.

(Omitted 1930-31.)

102. MEAL PLANNING AND TABLE SERVICE.—(C) Sem. 2. 0+6, Cr. 3.

Study of greater variety and more elaborate preparation of foods; planning menus for different costs; proper food combinations; suitable service for informal family meals and for special functions.

Prerequisite: Home Economics 101.

Laboratory fee \$7.50.

(Omitted 1930-31.)

135. HOME NURSING.—(C) Sem. 1. 2+0, Cr. 2.

This course deals with the prevention and cure of sickness in the home; first aid emergencies; recognition of common symptoms of disease; simple nursing procedures.

Laboratory fee \$1.00.

138. WOMAN AND HER SOCIAL RELATIONS.—(C) Sem. 2. 1+0, Cr. 1.

A study of woman in her relations to the various activities of the community; social, economic, hygienic, civic, and educational.

142. THE HOUSE.—(C) Sem. 2. 0+6, Cr. 3.

Types of architecture affecting modern house plans; discussion of furnishings from the economic, sanitary and aesthetic standpoint; original plans for house and arrangement of furnishings will be worked out by each student.

Prerequisite or parallel: Home Economics 51.

Laboratory fee \$1.00.

151. NUTRITION AND DIETETICS.—(D) Sem. 1. 1+6, Cr. 4.

Fundamental principles of human nutrition and nutritive properties of common food materials; food requirements of the individual; calculation and preparation of dietaries with reference to cost varied to meet different incomes.

Prerequisite: Home Economics 102, Chemistry 103.

Laboratory fee \$5.00.

153. CHILD CARE.—(D) Sem. 1. 2+0, Cr. 2.

The health problems of mother and infant; feeding of normal infants and children; diet in deficiency diseases; growth and development in childhood and adolescence.

(Omitted 1930-31.)

155. CLOTHING CONSTRUCTION.—(D) Sem. 1. 0+4, Cr. 2.

A further study in selection and construction of clothing; experience in handling wool and silks; personal expense accounts; and budgets with special reference to clothing.

Prerequisite: Home Economics 51 and 52.

Laboratory fee \$2.00.

156. ADVANCED CLOTHING CONSTRUCTION.—(D) Sem. 2. 0+6, Cr. 3.

Historic costume as affecting present day styles; problems in design and color harmony in relation to costume for different individuals and purposes; construction of clothing with fundamentals of draping on the form; selection and construction of hats.

Prerequisite: Home Economics 155.

Laboratory fee \$3.00.

174. HOME MANAGEMENT: Lecture.—(D) Sem. 2. 1+0, Cr. 1.

The sources and division of the income; budgeting; the purchase, care, and use of equipment; application of scientific management to the home and to household operations.

Prerequisite: Home Economics 135, 151 and 153.

(Omitted 1930-31.)

176. HOME MANAGEMENT: Cottage.—(D) Sem. 2. Cr. 3.

Residence for six weeks in the Home Management Cottage providing opportunity for managerial responsibilities in home making.

Prerequisite: Home Economics 135, 151 and 153; prerequisite or parallel: Home Economics 174.

Laboratory fee \$10.00 to \$25.00.

(Omitted 1930-31.)

191. THE TEACHING OF HOME ECONOMICS.—(D) Sem. 1. 2+0, Cr. 2.

A teacher's course. A study of the development of Home Economics and its relation to other subjects in the school curriculum; methods of presentation on subject matter; planning of courses; uses of illustrative material; lesson plans; study of text-books, supplies and equipment.

Prerequisite: Eighteen credit hours of the major.

THE DEPARTMENT OF MATHEMATICS AND PHYSICS

A. MATHEMATICS

MR. COPP

Major: Twenty-four credits, including Mathematics 51 and 52, are required for a major.

Minor: Twelve credits make a minor.

51. MATHEMATICAL ANALYSIS.—(B) Sem. 1. Cr. 5.

A unified course inclusive of College Algebra, Trigonometry and the introduction to Analytics.

Prerequisite: Solid Geometry and at least one unit of high school Algebra.

52. MATHEMATICAL ANALYSIS.—(B) Sem. 2. Cr. 5.

A unified course inclusive of Trigonometry, Analytics and the introduction to Calculus.

Prerequisite: Mathematics 51.

55. COLLEGE ALGEBRA.—(B) Sem. 1. Cr. 3.

Quadratic equations, use of determinants, progressions, binomial theorem, Horner's method of approximating roots.

Prerequisite: One and one-half units of high school algebra.

56. THEORY OF INVESTMENTS.—(B) Sem. 2. Cr. 3.

For students of Business Management. Theoretical and practical work in interest, discounts, loans, insurance, investments, stocks, bonds, and annuities.

Prerequisite: Mathematics 51 or 55.

111. DIFFERENTIAL CALCULUS.—(C) Sem. 1. Cr. 4.

Theoretical and practical work with applications to geometrical and physical problems.

Prerequisite: Mathematics 52.

112. INTEGRAL CALCULUS.—(C) Sem. 2. Cr. 4.

Practice in integration, definite integrals, improper integrals, multiple integration, important theorems and applications.

Prerequisite: Mathematics 111.

131. ADVANCED ALGEBRA.—(C) Sem. 1. Cr. 3.

Undetermined coefficients, continuous fractions with some of their applications, various methods of summing series.

Prerequisite: Mathematics 52.

141. ARITHMETIC IN THE ELEMENTARY SCHOOL.—(C) Sem. 1. Cr. 2.

Topics: The history of numbers; number experiences of the child; the fundamental operations and their presentation; denominate numbers; factoring; fractions; percentage and its applications; business arithmetic.

(Offered 1931-32.)

142. THE TEACHING OF ARITHMETIC IN THE ELEMENTARY SCHOOL.—(C) Cr. 2.

Methods and purpose of drill, problem solving; sources of problem material; diagnosis of arithmetical difficulties; remedial instruction; arithmetical tests; materials of instruction.

(Offered 1931-32.)

155. MODERN ANALYTICAL GEOMETRY.—(D) Sem. 1. Cr. 3.

A brief introduction to synthetic and analytic projective geometry is followed by an analytic exposition of the more essential parts of projective geometry.

Prerequisite: Mathematics 111 and 131.

(Given upon sufficient demand.)

161. ADVANCED CALCULUS.—(D) Sem. 1. Cr. 3.

Proof of the more advanced theorems of calculus is offered.

Prerequisite: Mathematics 112.

(Given upon sufficient demand.)

166. THEORY OF ALGEBRAIC EQUATIONS.—(D) Sem. 2. Cr. 2.
 Selected topics in modern higher algebra.
 Prerequisite: Mathematics 111 and 131.
 (Given upon sufficient demand.)
171. DIFFERENTIAL EQUATIONS.—(D) Sem. 1. Cr. 3.
 Ordinary differential equations: applications to mechanical, physical, and chemical problems.
 Prerequisite: Mathematics 112.
 (Given upon sufficient demand.)
172. DIFFERENTIAL EQUATIONS.—(D) Sem. 2. Cr. 3.
 Non-linear and partial differential equations; some of the existence theorems.
 Prerequisite: Mathematics 171.
 (Given upon sufficient demand.)
191. THE TEACHING OF MATHEMATICS.—(D) Sem. 1. Cr. 3.
 A teacher's course. The methods and materials necessary to teach mathematics in high school.
 Prerequisite: Fifteen hours of mathematics.
 (Given upon sufficient demand.)

B. PHYSICS

ASSISTANT PROFESSOR THOMAS

The courses are arranged to meet the need of (1) students desiring to major or minor in Physics, (2) students preparing for Medicine, and (3) students in Engineering and Home Economics.

Major: Twenty-four sequential credits in Physics shall constitute a major.

Minor: Twelve credits in Mathematics and one other science, Chemistry of Engineering, are required for the related minor.

The minor in Physics should be arranged upon consultation with the major adviser.

COURSES IN PHYSICS

- 51-52. GENERAL PHYSICS.—(B) Yr. Each sem. 3+3, Cr. 4.
 This is the basic course in physics. The general principles of mechanics, sound, heat, electricity, and light are covered.
 Prerequisite: High School Algebra.
Laboratory fee \$6.00; deposit \$2.00.
- 61-62. TECHNICAL PHYSICS.—(B) Yr. Each sem. 3+3, Cr. 4.
 This course is intended particularly for engineers. The same material is covered as in Physics 51 and 52.
 Prerequisite: Mathematics 52.
Laboratory fee \$6.00; deposit \$2.00.
111. HEAT LABORATORY.—(C) Sem. 1. 0+3, Cr. 1.
 The course is intended particularly for engineers.
 Prerequisite: Physics 61-62.
Laboratory fee \$6.00; deposit \$2.00.
 (Given upon sufficient demand.)

112. THEORY OF HEAT.—(C) Sem. 2. 2+6, Cr. 4.

Thermal properties of matter, introduction to thermodynamics, properties of vapors, pyrometry and other thermal phenomena are studied.

Prerequisite: Physics 51-52 or 61-62, and Mathematics 52.

Laboratory fee \$6.00; deposit \$2.00.

(Omitted 1930-31.)

121. THEORY OF LIGHT.—(C) Sem. 1. 2+6, Cr. 4.

Geometrical and physical optics, spectroscopy, and the general properties of radiant energy will be considered both theoretically and experimentally.

Prerequisite: Physics 51-52 or 61-62 and Mathematics 52.

Laboratory fee \$6.00; deposit \$2.00.

125. ELECTRICAL MEASUREMENTS.—(C) Sem. 1. 1+6, Cr. 3.

Required of juniors who are taking Electrical Engineering. Also especially adapted to accompany course 131, though not required.

Prerequisite: Mathematics and Physics 51 and 52 or 61 and 62.

Laboratory fee \$6.00; deposit \$2.00.

131. ELECTRICITY AND MAGNETISM.—(C) Sem. 1. 2+6, Cr. 4.

The basic principles of electrical and magnetic phenomena are investigated theoretically and experimentally.

Prerequisite: Physics 51-52 or 61-62 and Mathematics 52.

Laboratory fee \$6.00; deposit \$2.00.

140. THEORETICAL MECHANICS.—(C) Sem. 2. 3+0, Cr. 3.

The mathematical theory of statics and Newtonian dynamics.

Prerequisite: Physics 51-52 or 61-62 and Mathematics 112.

145. HISTORY OF PHYSICS.—(C) Sem. 2. 2+0, Cr. 2.

A complete survey of the development of physics.

Prerequisite: Physics 51-52 or 61-62.

161. MODERN PHYSICS.—(D) Sem. 1. 3+0, Cr. 3.

A course dealing with recent discoveries in the nature of matter and energy, embodying also recent theories of atomic structure, X-rays, radioactivity, and other modern phenomena.

Prerequisite: Any two of the following, Physics 112, 121, 131, 140.

171. ALTERNATING CURRENT THEORY.—(D) Sem. 1. 3+0, Cr. 3.

The course must be taken by those who plan to study Radio.

Prerequisite: Physics 131 and Mathematics 112.

(Omitted 1930-31.)

172. RADIO.—(D) Sem. 2. 2+3, Cr. 3.

A study of electromagnetic waves and the theory of radio communication.

Prerequisite: Physics 171.

Laboratory fee \$6.00; deposit \$2.00.

(Omitted 1930-31.)

182. DESCRIPTIVE ASTRONOMY.—Sem. 2. 3+0, Cr. 3.

A general introduction to non-mathematical astronomy. The constellations, the solar systems, and the stellar universe are covered.

Laboratory fee \$2.00.

(Omitted 1930-31.)

191. THE TEACHING OF PHYSICS.—(D) Sem. 2. 2+3, Cr. 3.

A teacher's course. Open to students in Physics and Education.

Prerequisite: One of the courses, Physics 112, 121, 131, 140.

Laboratory fee \$6.00; deposit \$2.00.

THE DEPARTMENT OF RELIGION AND PHILOSOPHY

PROFESSOR KROENCKE and MR. KUMNICK

A. RELIGION

KUMNICK

The Department of Religion provides courses for adequate and systematic instruction in the fundamentals of the Christian religion. Such courses may be taken by the general student body. Other courses prepare for lay service in the church. Dependent upon the amount of work taken, a major or minor, the student may qualify for part-time service in his church, such as Sunday-school teaching and group leadership; or he may prepare for certain types of full-time service, such as that of Sunday-school administrator, church secretary, and church organist and choir conductor.

Major: A major in Religion requires 24 credit hours, which should include Religion 51 and 52.

Minor: A minor requires 12 credit hours, including Religion 51 and 52.

The following curricula are subject to such changes as the special needs of the student may require.

THE CURRICULUM FOR CHURCH SECRETARY

(Leading to the degree of Bachelor of Arts)

The courses for the freshman year are the same as those prescribed for all students in the College of Liberal Arts. Religion 1, The Life of Jesus, and Religion 2, The Teachings of Jesus, should be included.

Sophomore Year

First Semester			Second Semester		
		Cr.			Cr.
Rel.	49. Christianity and Civilization	1	Rel.	50. Christianity and Civilization	1
Rel.	51. The Bible: The Old Testament	3	Rel.	52. The Bible: The New Testament	3
Engl.	51. Survey of English Literature	2	Engl.	52. Survey of English Literature	2
B.M.	41. Elementary Accounting...	2	B.M.	42. Elementary Accounting...	2
P.E.	51. Survey of Games and Sports	0	P.E.	52. Survey of Games and Sports	0
	Foreign Language	3		Foreign Language	3
	Science	4-5		Science	4-5
<hr/>			<hr/>		
15 or 16			15 or 16		

Junior Year

	<i>First Semester</i>	<i>Cr.</i>		<i>Second Semester</i>	<i>Cr.</i>
Rel.	121. Ancient and Medieval Church History.....	3	Rel.	122. Modern Church History..	3
Engl.	131. Journalism	2	Engl.	132. Journalism	2
Psych.	51. General Psychology	3	Ed.	52. Educational Psychology..	3
Soc.	51. Introduction to the Study of Human Society.....	3	Soc.	52. Introduction to the Study of Human Society.....	3
Hist.	51. Medieval Europe	3	Hist.	52. Modern Europe	3
B.M.	2. Beginning Typewriting... 1	1	B.M.	3. Advanced Typewriting....	1
		15			15

Senior Year

(Offered 1931-32.)

	<i>First Semester</i>	<i>Cr.</i>		<i>Second Semester</i>	<i>Cr.</i>
Rel.	111. The Local Congregation..	2	Rel.	112. The General Church Body	2
Rel.	125. The Church in the Mission Field	2	Rel.	152. Materials and Methods in Young People's Work..	3
Rel.	151. Materials and Methods in Religious Education....	3	Rel.	162. Principles of Christian Service	2
P.E.	105. Recreational Leadership...	3	H.E.	135. Home Nursing	2
P.E.	117. Minor Sports	2	Soc.	102. Social Problems	3
B.M.	4. Beginning Stenography... 1	1	B.M.	5. Advanced Stenography and Secretarial Training....	2
	Electives	3		Electives	2
		16			16

Toward the program for *Sunday-school administrator* or *director of religious education* in a congregation, leading to the degree of Bachelor of Arts, the student should complete the freshman and sophomore constant, and select courses from the following groups: English 51, 52, 131, 132; Ed. 52; History 51, 52; Religion 51, 52, 101, 102, 111, 112, 121, 122, 151, 152, 162; Sociology 51, 52, 102; Philosophy 122; Psychology 51.

COURSES IN RELIGION

1. THE LIFE OF JESUS.—(A) Sem. 1. Cr. 2.

A detailed study of the Gospel record, classification of the most important writings on the Life of Christ, and an intensive study of His person, life, and public ministry.

Kumnick.

2. THE TEACHINGS OF JESUS.—(A) Sem. 2. Cr. 2.

A systematic study, based on the Gospel narratives, of the teachings of Jesus concerning God, man, sin, salvation, the Kingdom of God, the future life, etc. The course concludes with a survey of Christological thought from the days of Paul down to the present time.

Kumnick.

49-50. CHRISTIANITY AND CIVILIZATION.—(B) Yr. Each semester. Cr. 1.

The important contribution which Christianity has made and still makes to the life of a nation; consideration of the influence of the Bible on questions pertaining to the family, divorce, the status of women, the child, economic, moral, social, and educational life.

Kumnick.

51. THE BIBLE: THE OLD TESTAMENT.—(B) Sem. 1. Cr. 3.

The most important teachings of the Old Testament. A descriptive survey of the Books of the Old Testament and a resume of Old Testament Biblical History.

Kumnick.

52. THE BIBLE: THE NEW TESTAMENT.—(B) Sem. 2. Cr. 3.

Judaism in the days of Christ; early Christianity. A descriptive survey of the books of the New Testament and a resume of New Testament Biblical History.

Kumnick.

101. THE LIFE AND LETTERS OF PAUL.—(C) Sem. 1. Cr. 2.

The conversion of Paul; his missionary career; personality and characteristic ideals; place and influence in the Christian Church. The writings of Paul and the fundamental doctrines and practices of the Church.

(Given upon sufficient demand.)

102. CHRISTIAN EVIDENCE.—(C) Sem. 2. Cr. 2.

The grounds on which Christianity bases its claim to be absolute religion. The historical method of approach supplemented by evidence from science, logic, and experience. Comparison of Christianity with the principal anti-theistic theories.

(Given upon sufficient demand.)

111. THE LOCAL CONGREGATION.—(C) Sem 1. Cr. 2.

Nature and place of the congregation. Organization and administration. Budgeting and stewardship. Activities. Intended to prepare for intelligent and efficient participation in the work of the congregation.

112. THE GENERAL CHURCH BODY.—(C) Sem. 2. Cr. 2.

Relation to the local congregation. Organization and administration. Finance. Survey of education and missionary activities. Intended to prepare for efficient participation in the work of the church at large.

121. ANCIENT AND MEDIEVAL CHURCH.—(C) Sem. 1. Cr. 3.

From the Apostolic Age to the period of the Reformation.

122. MODERN CHURCH HISTORY.—(C) Sem. 2. Cr. 3.

The Church of the Reformation. A history of the principal denominations up to the present day.

125. THE CHURCH IN THE MISSION FIELD.—(C) Sem. 1. Cr. 2.

A survey of mission fields. The field, problems, methods employed, and the social, educational, and religious status of the countries included in the study.

151. MATERIALS AND METHODS IN RELIGIOUS EDUCATION.—(D) Sem 1. Cr. 3.
 Organization, equipment, and administration of the Sunday school, the Vacation Bible School, and other educational agencies; objectives, curricula, texts. Some attention is given to standards and texts.
152. MATERIALS AND METHODS IN YOUNG PEOPLE'S WORK.—(D) Sem. 2. Cr. 3.
 The nature of young people's work; its place in the life of the church; development; problems; lesson material; activities; discovery and training of leadership.
162. PRINCIPLES OF CHRISTIAN SERVICE.—(D) Sem. 2. Cr. 2.
 Nature and place of Christian service in the life of the individual; motives and ideals of service; various types of Christian service in the church and in the community; standards of service; leadership qualifications. Supplementary readings, reports, personal conferences.
191. THE TEACHING OF RELIGION.—(D) Sem. 1. Cr. 2.
192. OBSERVATION AND PRACTICE TEACHING.—(D) Sem. 2. Cr. 1½.

B. PHILOSOPHY

KROENCKE

COURSES IN PHILOSOPHY

- 51-52. HISTORY OF PHILOSOPHY.—(B) Yr. Each semester. Cr. 3.
 A survey of philosophical thought from its rise among the ancient Greeks to the present time, with emphasis upon the great movement of thought rather than upon the details of philosophical systems. Certain systems, however, are selected for special study.
 Alternates with Philosophy 141-142.
101. LOGIC.—(C) Sem. 1. Cr. 3.
 An introductory course in the laws of thought. The evolution of the concept, its development into judgment and inference, the systematic function of classification, the explanatory function of generalization, and the methodology of proof and investigation are studied with a view to securing a foundation for an effective scientific method.
122. ETHICS.—(C) Sem. 2 Cr. 3.
 The moral situation; problems and types of moral theory; conduct and character; happiness in its relation to conduct and social ends; the place of reason, duty, and self in the moral life; the virtues; social organization and the individual; civil society and the political state; the ethics of economic life; the family.
- 141-142. CONTEMPORARY PHILOSOPHY.—(C) Yr. Each semester. Cr. 2.
 A study of idealism, realism, pragmatism and other types of philosophy.
 Alternates with Philosophy 51 and 52.
 (Omitted 1930-31.)

THE DEPARTMENT OF SOCIAL SCIENCE

ASSISTANT PROFESSOR PINTO, ASSISTANT PROFESSOR BAUER

The courses in History, Political Science, and Sociology aim to give the student an insight into the record of the development of social and political institutions, thereby giving him the background necessary to an intelligent citizenship, further professional training, and a liberal education.

The Department of Social Science is sponsor for the following work:

1. For the *TWO YEAR PRE-LEGAL COURSE*. For this course the freshman and sophomore constants and, in the sophomore year, such courses as may be suggested by the adviser on the basis of the student's previous training and natural aptitude are required.
2. For the *FOUR-YEAR LIBERAL ARTS-LAW PROGRAM*. For this program the freshman and sophomore constants, a major in History and Political Science, and sufficient electives to total at least 93 credits at the end of the junior year are needed.

This is followed by one year of Law.

3. For the first half of the *SIX-YEAR COMBINED LIBERAL ARTS-LAW COURSE*. This program requires for its completion the three years of work in the College of Liberal Arts, noted above, and the regular three-year course in the School of Law.
4. For the *FIVE-YEAR COMBINED LIBERAL ARTS AND SOCIAL WORK PROGRAM*. For this program the freshman and sophomore constants, a major in the social studies, including Sociology 51, 52, and 102; History 51, 52, 131, 132, 133, and 134; Political Science 51, 52, and 101; Economics 51, 52, and 141; Psychology 51, and 116; Ed. 52, and sufficient electives to total 124 credits must be earned. See under Combined Programs.

The work of the fifth year is secured in an approved school of Social Work.

HISTORY

ASSISTANT PROFESSORS PINTO and BAUER

Major: A major in History requires at least 24 units in History, which should include History 51 and 52 and other courses grouped in either American or European History. Economics 51 and 52 may also be included.

Minor: Twelve credits are necessary toward a minor.

Upper-division students majoring in other departments may, with the consent of the adviser in Social Science, be allowed to register for upper-division courses without the introductory courses.

COURSES IN HISTORY

51. MEDIEVAL EUROPE.—(B) Sem. 1. Cr. 3.

A survey of European history from the dissolution of the Roman empire to the rise of modern national states, about 500 to 1500, with primary emphasis upon the peculiarly medieval institutions.

Bauer.

52. EUROPE SINCE 1500.—(B) Sem. 2. Cr. 3.

Continuation of History 51. The development of Europe from the beginning of the sixteenth century to the present time, with particular attention to those economic and intellectual forces that have entered so vitally into the making of twentieth century Europe.

Prerequisite: History 51.

Bauer.

101. RENAISSANCE AND REFORMATION.—(C) Sem. 1. Cr. 3.

A study of the transition of Europe from medieval to modern times: the revival and spread of classical learning, humanism, fine arts and letters, scientific inventions and discoveries, geographical explorations, the Protestant Reformation, the Catholic Counter-Reformation, and the religious wars of 1648.

Alternates with History 111.

(Omitted 1930-31.)

102. FRENCH REVOLUTION AND NAPOLEONIC ERA.—(C) Sem. 2. Cr. 3.

Growing dissatisfaction under the old regime, the meeting of the Estates-General, the constitutional monarchy, the republic under the Terror and the Directorate, the rise of Napoleon and the Consulate, the Empire and Napoleonic wars, and the Congress of Vienna. Less emphasis is placed upon the purely personal and local phenomena and more upon the significance of the period for the subsequent development of Europe.

Alternates with History 112.

(Omitted 1930-31.)

111. ENGLAND SINCE JAMES I.—(C) Sem. 1. Cr. 3.

A century of revolution, aristocratic government, foundations of the British Empire, the economic revolution, the period of reform, the growth of democracy, the World War, and recent tendencies.

Alternates with History 101.

Bauer.

112. CONSTITUTIONAL HISTORY OF ENGLAND.—(C) Sem. 2. Cr. 3.

Alternates with History 102.

Bauer.

121. ANCIENT HISTORY.—(C) Sem. 1. Cr. 3.

The Orient and Greece. Prehistoric times, Egypt, the civilizations of the Tigris-Euphrates valley, the Hebrews, the Phoenicians, and the Hellenic world.

Given in alternate years.

(Omitted 1930-31.)

122. ANCIENT HISTORY.—(C) Sem. 2. Cr. 3.

The Roman world, from the beginning of Rome to the so-called "fall" of the western empire in 476.

Given in alternate years.

Bauer.

131. UNITED STATES TO 1865.—(B) Sem. 1. Cr. 3.

Deals with the period from the earliest settlements to the administration of Andrew Jackson.

Pinto.

132. UNITED STATES: 1865 TO THE PRESENT TIME.—(C) Sem. 2. Cr. 3.
Prerequisite: History 131.

133. THE U. S. AS A WORLD POWER.—(C) Sem. 1. Cr. 3.
1898 to present time. Results of Spanish War. Political development. European War. American participation. Results of World War. League of Nations.
Prerequisite: History 131 and 132.
Alternates with Political Science 147. Pinto.

134. GROWTH OF THE WEST.—(C) Sem. 2. Cr. 3.
The settlement and growth of the various areas west of the Appalachians, and the influence of the new states upon national and international affairs.
Alternates with Political Science 148. Pinto.

152. GERMANY SINCE 1871.—(D) Sem. 2. Cr. 3.
Bismarck and the unification of Germany, William II; political, social, and economic development to 1914; the World War and the fall of the Hohenzollerns; the new constitution and republican Germany.
Alternates with History 122. Bauer.

153. TWENTIETH-CENTURY EUROPE.—(D) Sem. 1. Cr. 3.
This course will make a careful survey of Europe since 1900, including some of the following larger topics: pre-war Europe; the World War; problems of reconstruction; the new states of Europe; the League of Nations and the World Court; the questions of reparations and disarmament; the rise of communism and fascism.
Bauer.

191. THE TEACHING OF HISTORY.—(D) Sem. 1. Cr. 2.
A teacher's course. Principles and methods of teaching History in high school.
Prerequisite: 15 hours of History.
Given in alternate years. Bauer.

RELATED COURSES IN POLITICAL SCIENCE

Political Science 157.

Political Science 158.

POLITICAL SCIENCE

ASSISTANT PROFESSORS BAUER and PINTO

Political Science is the study of government and politics. It deals with (1) the organization and activities of governments, American and foreign, (2) the theory and legal basis of political institutions, (3) public opinion and political parties, and (4) International Law and Relations. Political Science offers preparation for the following professional careers:

1. Directly: Consular and diplomatic service, city manager, public administration, civil service, research in public affairs, secretary of civic association.
2. Indirectly: Law, business, social service, journalism, teaching.

Major: The major in Political Science requires at least 24 credits, including Political Science 51 and 52.

Political Science 51 and 52; Economics 51 and 52; History 51 and 52 must be completed before any upper-division work in Political Science may be chosen.

Major: Students majoring in History and Political Science should earn at least 36 credits, including History 51, 52, 101 and 103, and Political Science 51 and 52.

Minor: The minor consists of 12 credits, including Political Science 51 and 52.

Upper division students majoring in other departments may, with the consent of the adviser in Social Science, be allowed to register for upper-division courses without the introductory courses.

COURSES IN POLITICAL SCIENCE

51. INTRODUCTION TO POLITICAL SCIENCE.—(B) Sem. 1. Cr. 3.

Fundamental political conceptions: state, government; governmental organization and functions; political thought; political parties; international relations.

Pinto.

52. AMERICAN GOVERNMENT.—(B) Sem. 2. Cr. 3.

Federal and State. Structure and functions. Constitutional development. State administration. Political parties.

Pinto.

101. COMPARATIVE GOVERNMENT.—(C) Sem. 1. Cr. 3.

Comparative analysis of the British and Continental European types of government, including the new government set up since 1918.

Alternates with Political Science 103 and 105.

(Omitted 1930-31.)

102. AMERICAN PARTIES.—(C) Sem. 2. Cr. 3.

Study of the background of the American party system and party principles along with an analysis of present day organization and problems.

Alternates with Political Science 104 and 106.

(Omitted 1930-31.)

103. PRINCIPLES OF INTERNATIONAL LAW.—(C) Sem. 1. Cr. 3.

Introduction to the principles of international Law, as exemplified in treaties, international practice, court decisions. Open to law students.

Alternates with Political Science 101 and 105.

(Omitted 1930-31.)

104. MUNICIPAL GOVERNMENT.—(C) Sem. 2. Cr. 3.

Historical development in Europe and in the United States. Analysis of present-day problems; study of city manager and commission form of government.

Alternates with Political Science 102 and 106.

Pinto.

105. INTERNATIONAL ORGANIZATION.—(C) Sem. 1. Cr. 3.

Historical survey of international relations. Study of the organization and development of the League of Nations, down to the present time.

Alternates with Political Science 101 and 103.

Pinto.

106. FAR EASTERN POLITICS.—(C) Sem. 2. Cr. 3.

Study of the political problems of Japan, China, and of the Pacific in general, as well as of the policies of European nations and the United States.

Alternates with Political Science 102 and 104.

(Omitted 1930-31.)

111. CIVICS.—(C) Sem. 1. Cr. 3.

Analysis of political institutions and problems of citizenship in the municipal, state, and international fields.

Designed primarily for elementary teachers.

(Given upon sufficient demand.)

Bauer.

147. FOREIGN POLICY OF THE UNITED STATES.—(C) Sem. 1. Cr. 3.

Study of the development of the foreign policy of the United States from the colonial days to the present.

Alternates with History 134.

(Omitted 1930-31.)

148. UNITED STATES AND LATIN AMERICA.—(C) Sem. 2. Cr. 3.

Political relations between the United States and the countries of Latin America. Special attention to the policy of the United States.

Alternates with History 134.

(Omitted 1930-31.)

191. THE TEACHING OF SOCIAL STUDIES.—(D) Sem. 1. Cr. 2.

A teacher's course. Principles and objectives in the teaching of social studies in secondary schools.

Prerequisite: 18 hours in Social Science.

(Omitted 1930-31.)

COURSES IN SOCIOLOGY

51-52. INTRODUCTION TO THE STUDY OF HUMAN SOCIETY.—(B) Yr.

Each sem. Cr. 3.

The general structure of society; the development and present-day issues of domestic, political, economic, cultural, and religious groups. The physical, social, and cultural factors affecting society; the nature and organization of society, involving group structure, group function, group objectives, and group mind; the process of society, including association and collective behavior, social struggle and adjustment, social forces, laws, and control.

102. SOCIAL PROBLEMS.—(C) Sem. 2. Cr. 3.

A study of social inadequacy and social maladjustments; the problems created by dependents, defectives, and delinquents; intemperance; gambling; the social evil; crime; poverty; juvenile delinquency; unemployment, disablement, and other problems of social organization.

Alternates with Sociology 104.

(Omitted 1930-31.)

104. THE FAMILY.—(C) Sem. 2. Cr. 3.

A comparative study of the nature, significance and problems of the family, stressing contemporary family disintegration and its reconstruction.

Alternates with Sociology 102.

THE SUMMER SESSION

1930

First Five-week Session, June 16 to July 19.

Second Five-week Session, July 21 to August 23.

1931

First Five-week Session, June 15 to July 18.

Second Five-week Session, July 20 to August 22.

Length of Sessions.—The Summer Session will consist of two five-week terms. School will be in session six days a week. Two five-week sessions are thus equivalent to one twelve-week session.

For Whom Intended.—The Summer Session serves particularly the following groups:

1. Regular university students who wish to secure additional credit, either to make up deficiencies or to shorten the time of their residence at the University.

2. Teachers of elementary schools and high schools who desire professional or non-professional instruction, either with or without relation to an academic degree.

3. Those desiring to complete the requirements for admission to one of the professional schools of this or another University.

4. Others desiring collegiate instruction during the summer.

Admission.—The general rules and regulations of the University relating to admission both to the freshman year and to advanced standing apply to the Summer Session.

Special Students and Auditors.—Adults who desire to pursue college work without reference to a degree, and those who desire merely to visit lecture courses in subjects in which they are especially interested and which they are not taking for credit, may register in the Summer Session respectively as special students or auditors and take such courses as may be open to them.

Registration.—The first day of each session is taken up with registration. An extra fee will be charged for late registration. All classes begin regular work in the second day of each session. Registration may not be changed after the first week of the session except by approval of the Director of the Summer Session.

All Summer Session work is counted as work done in residence.

Credits.—The maximum credit for which students may regularly register is 12 semester hours for the ten-week session, or six semester hours for either five-week session. This program necessitates an intensive study of two or three subjects at a time.

Grades will be mailed to the students at the close of the Summer Session.

Lectures and Concerts.—As an added feature of the Summer Session a special program—lecture, recital, or concert—is offered on stated afternoons (excepting Friday and Saturday). An attempt is made to have several lectures each summer devoted to one or two selected subjects of special interest.

Excursions.—The University organizes and conducts for the students of the Summer Session a series of Friday afternoon or Saturday excursions. The trips add much to both the educational and recreational possibilities of the Summer Session. They introduce students to Chicago's cultural treasures, to its manifold commercial activities, and to some of the beauty spots of the vicinity, such as the Dunes Park.

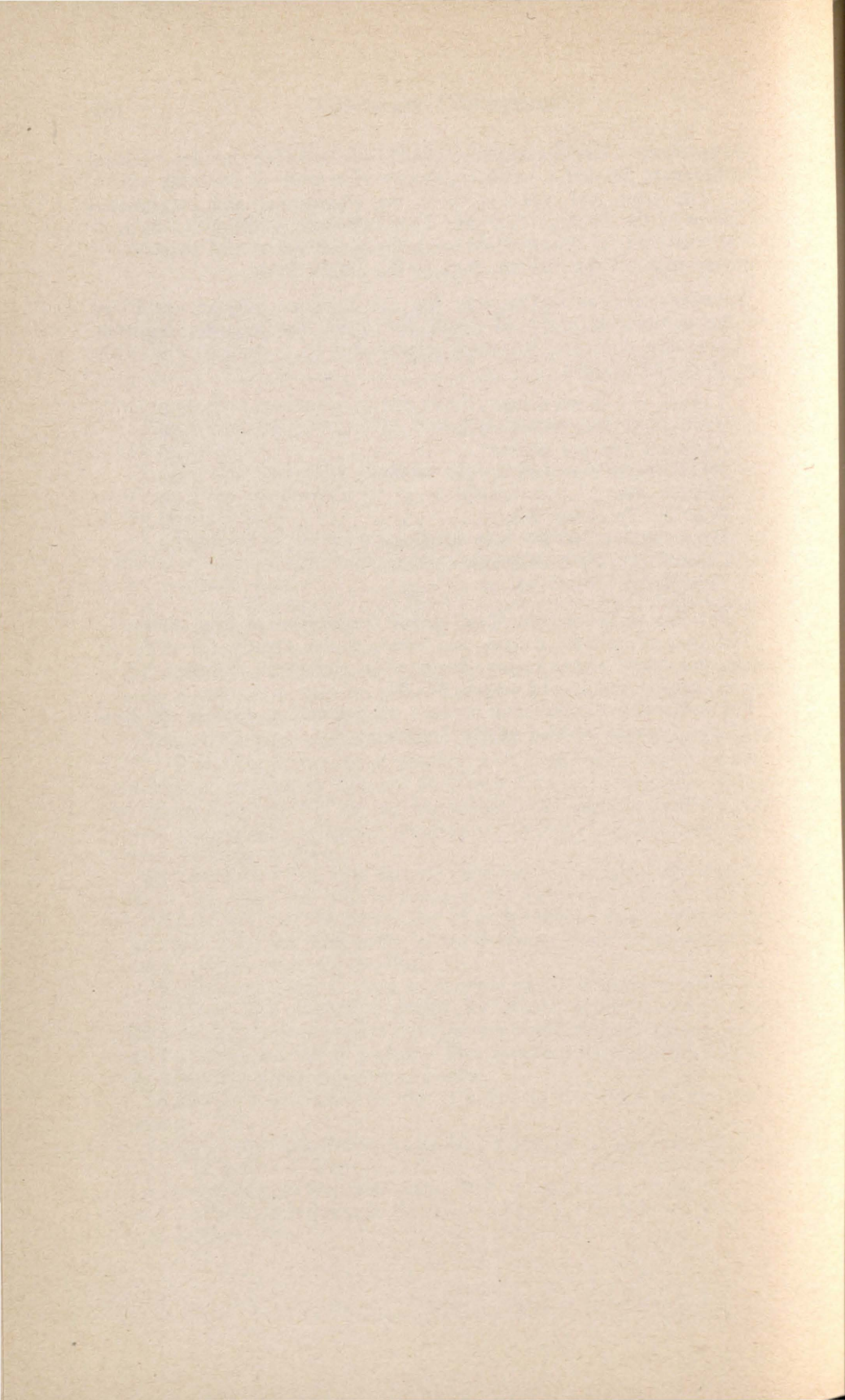
Summary of Fees.—The fees for the Summer Session are based upon the number of hours of credit for which the students registers. The University does not guarantee any refund to a student who withdraws after registration.

Tuition per credit hour.....	\$ 5.00
Tuition for four hours or less.....	20.00
Auditor's fee per course.....	15.00
Special lecture-concert fee per session.....	2.00
Library fee	2.00
Practice Teaching fee.....	25.00
Matriculation fee for new students.....	2.00
Laboratory (see course announcement).	
Field Trips (cost based on mileage).	

For fees in Music, see Music under Department of Fine Arts.

The cost of tuition, rooms, and meals varies greatly for different persons, but these three major items of a summer's expense during five-week session should not exceed \$75.00.

For information concerning courses of instruction, request the Bulletin of the Summer Session of the Registrar.



PART V

THE COLLEGE OF PHARMACY

*Accredited by and
Member of the American Association
of Colleges of Pharmacy*

ACTING DEAN LOFGREN

PROFESSOR FULLER

ASSISTANT PROFESSOR HARWOOD

ASSISTANT PROFESSOR THRUN

ASSISTANT PROFESSOR ELLIOT

ASSISTANT PROFESSOR UHL
(On leave of absence 1929-30)

MR. KAUFMAN, MR. MORROW

MISS RECHENBERG, MR. ZIMMERMAN

GENERAL INFORMATION

History.—The College of Pharmacy, which graduated its first class in 1893, offered its students at that time a fifty weeks course for the purpose of giving the men then engaged in the profession a slight knowledge of the science of pharmacy. Meanwhile, the tremendous advances in the fields of medicine, chemistry, and allied sciences made it necessary for the pharmacist to engage in a more extensive study of his work in order to retain his place in the community. This need was met by organizing curricula of two and three years' duration. They have sufficed up to the present. However, recent surveys of the pharmaceutical education indicate that a minimum four-year curriculum is now indispensable. This fact has led the College of Pharmacy to introduce such a curriculum, as the minimum, beginning with the present school year (1930-31). In fact, all the recognized schools and colleges of pharmacy in the United States have agreed to establish a four-year curriculum as the minimum beginning with 1932-1933. Students, however, who entered the College of Pharmacy prior to 1930-31, have the privilege of completing the three year curriculum.

Purpose.—A recent survey of pharmacy made by an impartial observer states that pharmacy is without question a profession as well as a business. Recognizing the truth of this observation, our purpose is to give our graduates (1) sound instruction in the fundamental sciences with which a pharmacist has to deal, (2) thorough training along the intensely practical lines of his profession, and (3) as broad a cultural background of general knowledge as is possible within the prescribed time. Such training should serve to give him high professional and business standing in the community.

Recognition.—The college holds membership in the American Association of Colleges of Pharmacy. The object of the Association is to promote the interests of pharmaceutical education. All schools holding membership must maintain certain minimum requirements for curriculum, equipment, entrance, and graduation. It has been the influence of this Association which has caused pharmacy curricula to change from time to time.

Admission.—The requirements for admission to the College of Pharmacy as a freshman, or to advanced standing, are the same as for the College of Liberal Arts of this University.

Graduation.—The degree of Bachelor of Science in Pharmacy requires the satisfactory completion of 132 credits of the four-year curriculum with a minimum of 132 quality points, the first, second, and third years of which may have been taken in some other recognized college or school of pharmacy.

The degree of Pharmaceutical Chemist requires the completion of 96 credits of the three-year curriculum with a minimum of 96 quality points. This degree is given only to those students who have entered the college prior to 1930-31.

Equipment.—Eight laboratories in Science Hall and the Biology Building furnish ample facilities for the students to do their practical

work. The main Chemical Laboratory and the Pharmacy Laboratory are each able to accommodate several hundred students. The Dispensing Laboratory is well equipped with modern prescription cabinets. The Materia Medica room is fitted with individual desks and lockers for pharmacognosy and contains display cabinets filled with samples of all the official crude drugs, also chemicals, and pharmaceutical apparatus. There are also special laboratories for Bacteriology, Botany, and Physiology. A good working library, which also has the latest publications in the pharmaceutical field, is maintained in connection with the main University library.

Medicinal Plant Garden.—The college also maintains a medicinal plant garden in which about fifty varieties of plants are raised. The material provided by the garden is used for comparison in the laboratories with the drugs as found on the market.

Field Trips.—The faculty annually arranges inspection trips to the pharmaceutical manufacturing establishments in such cities as Chicago, Indianapolis, and Detroit, so that the student may have some understanding of the preparation of chemicals and galenicals upon a commercial scale.

THE FOUR-YEAR CURRICULUM

The College offers a four-year curriculum leading to the degree of Bachelor of Science in Pharmacy (B. S. in Pharmacy).

This curriculum prepares the student (1) for the duties of the retail pharmacist, (2) for such positions as those of hospital pharmacist and of analytical chemist in pharmaceutical and food laboratories, and (3) for employment in various branches of government service. The courses offered in the curriculum include not only those of the fundamental sciences involved in the study of pharmacy, but also such of general cultural value. During the last two years the student may take nine credits of elective work which secure for him additional training in commercial management, analytical chemistry, manufacturing pharmacy or botany. Students having the medical profession in view may substitute courses in zoology and thus prepare themselves for admission to a medical school.

THE FOUR-YEAR CURRICULUM

(Leading to the degree of Bachelor of Science in Pharmacy)

Freshman Year					
First Semester				Class Lab.	Cr.
Pharm.	27.	Pharmaceutical Mathematics	2 + 0		2
English	1.	Freshman Composition	3 + 0		3
		Foreign Language	3 + 0		3
Surv.	5.	Freshman Lectures I.....	1 + 0		1
Chem.	51.	General Chemistry	3 + 3		4
Botany	51.	General Botany	2 + 6		4
P.E.	1.	Sports and Gymnastics	0 + 3		½
					<hr/>
					17½

<i>Second Semester</i>			Class Lab.	Cr.
Pharm.	2.	Pharmaceutical Technique	2 + 3	3
English	2.	Freshman Composition	3 + 0	3
		Foreign Language	3 + 0	3
Surv.	6.	Freshman Lectures II.....	1 + 0	1
Chem.	52.	Inorganic Chemistry	3 + 3	4
Chem.	64.	Qualitative Analysis	0 + 9	3
P.E.	2.	Sports and Gymnastics.....	0 + 3	½
				<hr/> 17½

Sophomore Year

(Given 1931-32.)

<i>First Semester</i>			Class Lab.	Cr.
Pharm.	75.	Operative Pharmacy	2 + 3	3
English	53.	Fundamentals of Speaking	1 + 0	1
		Foreign Language	3 + 0	3
Chem.	101.	Organic Chemistry	3 + 6	5
Phys.	51.	General Physics	3 + 3	4
P.E.	51.	Survey of Games and Sports.....	0 + 3	0
				<hr/> 16

<i>Second Semester</i>			Class Lab.	Cr.
Pharm.	76.	Operative Pharmacy	2 + 3	3
English	54.	Fundamentals of Speaking	1 + 0	1
		Foreign Language	3 + 0	3
Chem.	110.	Pharmaceutical Organic Chemistry	1 + 6	3
Phys.	52.	General Physics	3 + 3	4
Botany	120.	Plant Anatomy	1 + 6	3
P.E.	52.	Survey of Games and Sports	0 + 3	0
				<hr/> 17

Junior Year

(Given 1932-33.)

<i>First Semester</i>			Class Lab.	Cr.
Pharm.	111.	Elementary Dispensing	1 + 3	2
Pharm.	103.	Pharmacognosy	3 + 0	3
Pharm.	145.	History of Pharmacy	1 + 0	1
Chem.	106.	Quantitative Analysis	1 + 9	4
Botany	135.	Microscopical Examination	1 + 3	2
Botany	115.	Bacteriology	2 + 6	4
P.E.	101.	The Advanced Sports Program.....	0 + 3	0
				<hr/> 16

<i>Second Semester</i>			Class Lab.	Cr.
Pharm. 112.	Elementary Dispensing	1 + 3		2
Pharm. 104.	Pharmacognosy	3 + 0		3
Pharm. 146.	History of Pharmacy	1 + 0		1
Chem. 107.	Quantitative Analysis	1 + 9		4
Zool. 80.	Elementary Physiology	2 + 3		3
P.E. 102.	The Advanced Sports Program.....	0 + 3		0
	*Elective			3
				—
				16

Senior Year

(Given 1933-34.)

<i>First Semester</i>			Class Lab.	Cr.
Pharm. 155.	Advanced Dispensing	1 + 3		2
Pharm. 151.	Pharmacology, Toxicology and Therapeutics.....	3 + 0		3
Pharm. 175.	Pharmacopoeial Assay	1 + 6		3
Pharm. 161.	Pharmacological Standardization	0 + 3		1
Pharm. 167.	Plant Chemistry	2 + 3		3
B.M. 11.	Commercial Design	0 + 3		1
	*Elective			3
				—
				16

<i>Second Semester</i>			Class Lab.	Cr.
Pharm. 156.	Advanced Dispensing	1 + 3		2
Pharm. 152.	Pharmacology, Toxicology and Therapeutics.....	3 + 0		3
Pharm. 180.	U. S. P. and N. F.	2 + 0		2
Pharm. 182.	Pharmaceutical Jurisprudence	1 + 0		1
Chem. 142.	Bio-chemistry	3 + 6		5
B.M. 12.	Commercial Design	0 + 2		1
	†Elective			3
				—
				17

THE THREE-YEAR CURRICULUM

The College offers a three-year curriculum leading to the degree of Pharmaceutical Chemist (Ph. C.) to those students who entered prior to 1930.

This course prepares the student for the duties of the retail pharmacist.

*See under second semester of senior year.

†The language requirement, if still incomplete, must first be met. Otherwise minors in Business Management, Chemistry, Zoology, Botany, Education and Pharmacy may be chosen as follows: B.M. 41, 42, 51, 52, 121, 122, 131, 132; Chem. 155, 170; Zoology 51, 105, 110; Botany 125, 140; Ed. 51, 52, 113, 114, 118, 151; Psych. 51; Pharm. 167, 195, 196.

THE THREE-YEAR CURRICULUM

(Leading to the degree of Pharmaceutical Chemist)

First Year

The first year of this curriculum is no longer offered.

Second Year

(Given in 1930-31.)

<i>First Semester</i>		Class Lab.	Cr.
Pharm. 103.	Pharmacognosy	3 + 0	3
Pharm. 75.	Operative Pharmacy	2 + 3	3
Chem. 101.	Organic Chemistry	3 + 6	5
Chem. 105.	Quantitative Analysis	1 + 6	3
Chem. 153.	Pharmaceutical Inorganic Chemistry	1 + 6	3
		—	17

<i>Second Semester</i>		Class Lab.	Cr.
Pharm. 104.	Pharmacognosy	3 + 0	3
Pharm. 75.	Operative Pharmacy	2 + 3	3
Botany 135.	Microscopical Examination	1 + 3	2
Zool. 80.	Elementary Physiology	2 + 3	3
Chem. 108.	Pharmaceutical Organic Chemistry	2 + 6	4
English 54.	Fundamentals of Public Speaking	0 + 2	1
		—	16

Third Year

(Given in 1930-31 and 1931-32.)

<i>First Semester</i>		Class Lab.	Cr.
Pharm. 151.	Pharmacology, Toxicology and Therapeutics.....	3 + 0	3
Pharm. 161.	Pharmacological Standardization	0 + 3	1
Pharm. 155.	Advanced Dispensing	1 + 3	2
Pharm. 175.	Pharmacopoeial Assay	1 + 6	3
Botany 115.	Bacteriology	2 + 6	4
B.M. 11.	Commercial Design	0 + 2	1
*Elective			2
		—	16

<i>Second Semester</i>		Class Lab.	Cr.
Pharm. 152.	Pharmacology, Toxicology and Therapeutics.....	3 + 0	3
Pharm. 156.	Advanced Dispensing	1 + 3	2
Pharm. 126.	U. S. P. and N. F.	3 + 0	3
Pharm. 146.	History of Pharmacy	1 + 0	1
Chem. 140.	Bio-chemistry	3 + 3	4
B.M. 12.	Commercial Design	0 + 2	1
Pharm. 182.	Pharmaceutical Jurisprudence	1 + 0	1
*Elective			1
		—	16

*See note on Senior electives under the four-year curriculum.

COURSES OF INSTRUCTION

Pharmacy

2. PHARMACEUTICAL TECHNIQUE.—(A) Sem. 2. 2+3, Cr. 3.

A course dealing with the fundamental principles of pharmaceutical operations.

Laboratory fee \$6.00; deposit \$4.00.

Harwood.

27. PHARMACEUTICAL MATHEMATICS.—(A) Sem. 1. 2+0, Cr. 2.

A course in mathematics dealing with those problems peculiar to pharmacy as weights, measures, specific gravity, alligation, proportion, percentage, profits, and costs.

Lofgren.

75-76. OPERATIVE PHARMACY.—(B) Yr. Each semester. 2+3, Cr. 3.

An exhaustive study of the galenical and inorganic chemical preparations of the United States Pharmacopoeia and the National Formulary which are not ordinarily made extemporaneously by the pharmacist, but are usually purchased from the manufacturer. Examples of the various types of preparations will be made in laboratory.

Prerequisite: Pharmacy 2.

Laboratory fee \$6.00 per semester; deposit \$4.00.

111-112. ELEMENTARY DISPENSING.—(C) Yr. Each semester. 1+3, Cr. 2.

An exhaustive study of the preparations found in the United States Pharmacopoeia and the National Formulary which commonly are made extemporaneously by the pharmacist. Examples of the various kinds of preparations are manufactured in the laboratory.

Prerequisite: Pharmacy 76.

Laboratory fee \$6.00 per semester; deposit \$4.00.

Lofgren.

126. U. S. P. AND N. F.—(C) Sem. 2. 3+0, Cr. 3.

This course, coming in the last semester of the senior year, is designed to give the student a thorough review of the chemistry, materia medica and pharmacy of all the drugs and preparations of the United States Pharmacopoeia and National Formulary. This course is open only to students taking the three year course.

Lofgren.

145-146. HISTORY OF PHARMACY.—(C) Yr. Each semester. 1+0, Cr. 1.

A study of the development of pharmacy in the principal countries of Europe and the United States.

Harwood.

155-156. ADVANCED DISPENSING.—(D) Yr. Each semester. 1+3, Cr. 2.

A thorough survey of better dispensing practices with emphasis upon neatness, speed and accuracy. Special stress is placed upon incompatible prescriptions. The laboratory work is the filling of an actual file of physicians' prescriptions.

Prerequisite: Pharmacy 112.

Laboratory fee \$6.00 per semester; deposit \$4.00.

Lofgren.

167. PLANT CHEMISTRY.—(D) Sem. 1. 2+3, Cr. 3.

A study of the most important medicinal plant substances. The laboratory work will include the isolation and identification of plant principles.

Prerequisite: Chemistry 110.

Laboratory fee \$6.00; deposit \$4.00.

Harwood.

175. PHARMACOPOEIAL ASSAY.—(D) Sem. 1. 1+6, Cr. 3.

A study of the quantitative tests for standardization of drugs and medicines as used in the United States Pharmacopoeia and the National Formulary.

Prerequisite: Chemistry 105 or 107.

Laboratory fee \$6.00; deposit \$4.00.

Lofgren.

180. U. S. P. AND N. F.—(D) Sem. 2. 2+0, Cr. 2.

A critical study of the United States Pharmacopoeia and the National Formulary.

Lofgren.

182. PHARMACEUTICAL JURISPRUDENCE.—(D) Sem. 2. 1+0, Cr. 1.

A study of the Federal and State laws of interest to the pharmacist with special emphasis upon his legal responsibilities.

Lofgren.

195-196. ADVANCED PROBLEMS IN PHARMACY.—(D) Sem. 1 and 2.
2 to 5 Cr.

A study of advanced problems in manufacturing pharmacy, pharmaceutical assay or pharmaceutical chemistry. Credit and arrangement of schedule is made by members of the pharmacy staff.

Prerequisite: Pharmacy 156.

Laboratory fee \$1.50 per credit; deposit \$4.00.

Harwood and Lofgren.

Pharmacognosy

103-104. PHARMACOGNOSY.—(C) Yr. Each semester. 3+0, Cr. 3.

A study of the sources, preparation, physical and chemical characteristics, active constituents, Latin and common names of crude vegetable, animal and chemical drugs used medicinally. Some field work in the pharmaceutical garden is also undertaken.

Prerequisite: Botany 120.

Laboratory fee \$3.00.

Harwood.

151-152. PHARMACOLOGY, TOXICOLOGY AND THERAPEUTICS.—(D)
Yr. Each semester. 3+0, Cr. 3.

A study of the physiological action, toxicity, and therapeutic uses of medicinal substances with special reference to the drugs and preparations of the United States Pharmacopoeia and the National Formulary.

Prerequisite: Pharmacognosy 104, Chemistry 101, Elementary Physiology 80.

Harwood.

161. PHARMACOLOGICAL STANDARDIZATION.—(D) Sem. 1. 0+3, Cr. 1.

A laboratory and demonstration course in biological drug assaying with special reference to the methods of the United States Pharmacopoeia.

Prerequisite: Elementary Physiology 80.

Laboratory fee \$3.00.

Harwood.

RELATED COURSES IN THE COLLEGE OF LIBERAL ARTS

See section of catalogue devoted to College of Liberal Arts.

PART VI

THE SCHOOL OF LAW

*Approved by the Council on Legal Education
of the American Bar Association*

DEAN MORLAND

ASSISTANT PROFESSOR BERRY

ASSISTANT PROFESSOR FINKLE

MR. GAMMON, MR. CRUMPACKER, MR. REES

Lecturers

JUDGES CRUMPACKER, LORING, LINK, NORTON

MR. MORAN, MR. MILLER

PURPOSE

The pursuit of the study of law puts the student in closest touch with two fundamental requisites for building up a sturdy and noble character: Truth and Justice. The application of a law is for the protection of right and the suppression of wrong. A law that declares something right that is not right, or something wrong that is not wrong, lacks truth, and when applied, as such laws often are, in rigorous adherence to the letter it works injustice, and defeats its own purpose. "Justice," as George Eliot has said, "is like the Kingdom of God—it is not without us as a fact, it is within us as a great yearning." The inner sense of truth and justice must be the silent companion of the youth who sits poring over the digest of human laws. His true graduation in jurisprudence cannot be efficiency in legal quips and in rising technical points, but the ability to employ the legislation of men in the assertion of the principles of truth and justice, those attributes of God which were wrought into the very nature of man, when he was made in the image and after the likeness of God.

GENERAL INFORMATION

Historical Statement.—The School of Law was organized in 1879 by the Honorable Mark L. DeMotte, who remained at its head for nearly 30 years. During that time hundreds of graduates became successful lawyers, and many were given political preferment or judicial honors, both in state and nation. Colonel DeMotte retired during the year 1907-1908 because of ill health. His place was taken by Milo J. Bowman who in turn saw large numbers of students graduate during a period of more than twenty years.

In 1926 the School of Law was moved from its old inadequate building to the main floor of Commerce Hall. At present three full-time instructors, three part-time instructors, and six lecturers comprise the faculty.

The School of Law is approved by the Council on Legal Education of the American Bar Association.

Practice and Practice Court.—The school maintains an adequate course in Practice Court, under the instruction of a man who has had many years of experience in the practice of Law.

The Law Library.—The school maintains a separate Law Library that complies with the best requirements.

The Library contains the official reports of the Supreme Court of the United States and of leading states and those of thirty-seven states up to the reporter system, the National Reporter System complete, all sets of general annotated decisions, full English Reprint, English reports and digests, the United States Code Annotated and earlier compilations of federal statutes the United States Statutes at Large, state revised statutes or compilations and session laws, the American Digest System, state and special digests, citations, twelve legal periodicals, the standard law encyclopedias, and a collection of state trials, legal histories, and treatises on law and jurisprudence.

Curricula.—The University offers in the School of Law a three-year curriculum, based on an entrance requirement of two years of college work and leading to the degree of Bachelor of Laws (LL. B.). The University also offers a six-year curriculum, comprising three years of college work and three years of work in law, leading to the degrees of Bachelor of Arts (A. B. and Bachelor of Laws (LL. B.).

While a student may complete his law work in a minimum of five years above high school, i. e., two years of pre-law work and three years of law, the six-year curriculum is strongly recommended. The demands of modern legal study and professional service are severe. By providing himself with a liberal education before undertaking the study of law, the student brings to his professional work an increased breadth of view and maturity of mind which tend to make his legal study more fruitful and to enhance his success in the practice.

Purpose and Method of Instruction.—It is the design of the school to provide strictly professional training for the practice of law. The method of instruction is chiefly the study of decided cases, with collateral reading of statutes and other legal materials, accompanied by free discussion in the class room. The aim throughout is to train students in habits of legal reasoning and to assist the student in the acquisition of knowledge of a substantial part of the law which he is to practice. The instruction is not local in scope, but is designed to prepare students for the practice of law in any state.

The need for training in practice and procedure has been met by courses designed to give skill in the application of law in practice. Attention is, therefore, called to the courses called Use of Law Books, Criminal Procedure, Civil Procedure I, Code Pleading, Trial Practice, Evidence, and Practice Court.

ADMISSION

Applicants for admission as candidates for the degree of Bachelor of Laws must be able to satisfy the requirements for admission to a college of this University and have completed at least one-half of the work acceptable for a bachelor's degree as granted on the basis of four years of study.

The entrance requirements of this University, as set forth elsewhere in this bulletin, call for graduation from a four-year commissioned high school or other approved secondary school.

The requirement of one-half the work necessary for a four-year collegiate degree must be met by the completion of two years of study in a college of this University, or credit may be given, wholly or in part, upon a certificate from another college, university or normal school maintaining standards equivalent to those of the principal colleges or universities in this state.

Advanced Standing.—A student from a Law School which is a member of the Association of American Law Schools, or which is on the approved list of the American Bar Association, who has attained in the school from which he is transferring the average required by that institution and whose scholastic standing meets the requirements of

the University as to advanced standings, will ordinarily receive credit, not exceeding two years in amount, for the satisfactory completion of work done there if it is similar in character to that required here; provided that at the time he began the law courses for which he desires to receive credit he would have satisfied the entrance requirements of this School of Law. The right is reserved to refuse such credit, wholly or in part, save conditionally or upon examination, and credit given may be withdrawn for poor work. Admission with advanced standing will be refused where in the judgment of the faculty the schedule of studies pursued by the applicant in the school previously attended does not correspond sufficiently to the schedule of this school to make such admission advisable.

No credit will be given for work not done in residence at a law school.

Students from other Colleges of this University.—Subject to the regulations of the college in which they are registered and of the School of Law, junior and senior students in other colleges of the University may elect work in the School of Law.

REQUIREMENTS FOR GRADUATION

The work of the first two years is required. It consists of fourteen hours of work for each semester of the first year, and thirteen hours for each semester of the second year. Students of the third year are allowed to elect twelve hours of work for each semester of the senior year. Any senior whose scholastic record justifies it will be allowed to elect not to exceed four hours of extra work for each semester. In addition to the above seventy-eight hours of work the student must earn at least seventy-eight quality points.

Students are required to attend some twenty lectures on subjects of practical importance given by men who are active in the profession of the Law.

Combined Arts and Law Curriculum.—Students who have completed three years (93 semester hours) of work in the College of Liberal Arts and have received 93 quality points, will receive the degree of A. B. upon completing the first year in the School of Law, and the degree of LL. B. upon completing two additional years in the School of Law. By electing the combined course, students may obtain the two degrees in six years. Students who elect the combined curriculum are required to fulfill the college requirements applying to major and minor studies and prescribed work.

Admission to the Bar.—Graduates of the School of Law who are residents of Porter County and not less than twenty-one years of age may be admitted upon motion to the Circuit Court of the county, the Indiana Appellate Court, the Supreme Court of the State, and the District Court of the United States. Members of the faculty do not move the admission of non-residents of Porter Country or of students who do not graduate.

All rules and regulations of the University, except as herein noted, apply in general to the School of Law.

CURRICULUM FOR THE LAW SCHOOL

First Year

<i>First Semester</i>	Cr.	<i>Second Semester</i>	Cr.
Contracts	3	Contracts	2
Torts	3	Torts	2
Criminal Law.....	2	Property II.....	4
Property I.....	4	Agency	3
Use of Books.....	1	Civil Procedure.....	3
Criminal Procedure.....	1		
	—		—
Hours	14	Hours	14

Second Year

<i>First Semester</i>	Cr.	<i>Second Semester</i>	Cr.
Conflict of Laws.....	3	Quasi-Contracts	2
Equity	3	Equity	2
Municipal Corporation	2	Administrative Law.....	2
Bills and Notes.....	3	Sales	3
Wills	2	Persons	2
Damages	2	Partnership	2
	—	Taxation	2
	—		—
Hours	*15	Hours	*15

Third Year

<i>First Semester</i>	Cr.	<i>Second Semester</i>	Cr.
Legal Ethics.....	1	Constitutional Law.....	2
Constitutional Law.....	2	Practice Court.....	2
Evidence	3	Corporations	3
Trial Practice.....	2	Carriers	2
Insurance	2	Code Pleading.....	2
Mortgages	2	Trusts	3
	—	Suretyship	2
	—		—
Hours	12	Hours	*16

READING COURSES

Students whose scholastic standing warrants it, who desire to study some other course in substitution for one of the above may do so with the consent of the faculty and under the direction and assistance of a member thereof.

COURSES IN LAW

First Year Courses

110. AGENCY.—(C) Sem. 2. Cr. 3.

The rights, duties and liabilities incident to the relation of principal and agent. Mechem. Cases on Agency, second edition.

Crumpacker.

*See requirements for graduation, preceding page.

109. CIVIL PROCEDURE.—(C) Sem. 2. Cr. 3.

A study of the common Law actions preparation and necessary steps to be taken in the prosecution and defence of civil actions, with attention to jurisdiction, causes of action, parties, joinder, complaint, answer, demurrer, reply, motions, set-off and counter-claims, bills of particulars, instructions, amendment, construction of pleadings, proceedings before trial, during trial, after trial, judgments, new trial, appeals. McGill, Cases on Civil Procedure.

Finkle.

101-102. CONTRACTS.—(C) Yr. Sem. 1, Cr. 3; Sem. 2, Cr. 2.

Agreement: Offers, their duration, termination, and modes of acceptance; consideration, promises under seal; contracts for the benefit of third persons; assignment; joint obligations; conditions expressed and implied; impossibility as an excuse; illegal contracts; restraint of trade, wagers and gaming contracts, contracts obstructing the administration of justice; miscellaneous cases of illegal contracts; discharge of contracts by parol agreement, novation, release, accord and satisfaction, etc. Williston, Cases on Contracts, second edition.

Morland.

105. CRIMINAL LAW.—(C) Sem. 1. Cr. 2.

Nature and elements of crime; attempts; jurisdiction; specific crimes, particularly assault and battery, homicide, larceny and kindred crimes; burglary, arson, forgery, and perjury; circumstances modifying the offense; culpability; privilege; parties in crime; criminal conspiracy. Mikell, Cases on Criminal Law, second edition.

Berry

106. CRIMINAL PROCEDURE.—(C) Sem. 1. Cr. 1.

Preparation for necessary steps to be taken in the prosecution and defence of criminal cases with attention to jurisdiction of crimes and criminals, constitutional rights of the accused, habeas corpus, search warrants, jury, grand jury, trial, judgment and punishment, parols and pardons. Mikell, Cases on Criminal Procedure (abridged edition).

Finkle.

107. PROPERTY I.—(C) Sem. 1. Cr. 4.

Personal Property: trespass and case concepts in the law of property; possessory interests in chattels; acquisition of title to chattels; fixtures; emblements. Real Property: general introduction; rights in another's land, particularly rents, profits a prendre, "natural" rights, easements, and covenants passing with an estate. Warren, Cases on Property.

Berry.

108. PROPERTY II TITLES TO REAL PROPERTY.—(C) Sem. 2. Cr. 4.

Estates in land; original titles founded on possession, prescription, and accretion; conveyancing, including execution of deeds, description of the land conveyed, creation of easements by implication, recording, and title to estoppel. Aigler, Cases on Titles to Real Property.

Berry.

103-104. TORTS.—(C) Yr. Sem. 1, Cr. 3; Sem. 2, Cr. 2.

Trespass and case concepts in the law of torts; legal causation; specific torts, namely assault, battery, false imprisonment, trespass to land and to

goods, conversion, deceit, defamation; liability for negligent conduct; absolute liability. Bohlen, *Cases on Torts*, second edition.

Finkle.

112. USE OF LAW BOOKS.—(C) Sem. 1. Cr. 1.

Training in legal research and the use of authorities, cases, indices, and digests. Cooley, *Briefmaking*, fifth edition.

Finkle.

Second and Third Year Courses

151. ADMINISTRATIVE LAW.—(D) Sem. 2. Cr. 2.

The law of public officers. Executive, legislative and judicial action; construction of grants of power; forms of administrative action; commissions; procedure; the record of administrative action; the province of the courts; conclusiveness and judicial review of administrative action. Remedies, including extraordinary legal remedies. Freund's *Cases on Administrative Law*, second edition.

Finkle.

153. BILLS AND NOTES.—(D) Sem. 1. Cr. 3.

The principles governing bills of exchange, promissory notes, and other negotiable instruments at common law and under the *Negotiable Instruments Law*. Smith and Moore, *Cases on Bills and Notes*, second edition.

Berry.

202. CARRIERS.—(E) Sem. 2. Cr. 2.

A general consideration of bailment undertakings involving ordinary liabilities, and a more extended study of carriers, innkeepers, and other public service relations involving extraordinary liability. Goodard, *Cases on Carriers*, second edition.

Berry.

152. CODE PLEADING.—(D) Sem. 2. Cr. 2.

A study and history of procedure under modern codes, allegations in complaints, method of statement, prayer, demurrers, motions, answers, denials, equitable and legal defenses, replies. Hinton's *Cases on Code Pleading*, second edition.

Finkle.

205. CONFLICT OF LAWS.—(E) Sem. 2. Cr. 3.

Jurisdiction; effect of foreign judgments; jurisdiction in rem and in personam; remedies, rights of action, and procedure; application of re-statement. Beale's *Shorter Selection*, 1928.

Morland.

206. CONSTITUTIONAL LAW.—(E) Sem. 2. Cr. 2.

Relations between the federal government and the state; scope of legislative, judicial, and executive powers; interstate commerce; money; federal taxation; the government of dependencies; constitutional inhibitions in favor of life, liberty, and property; due process of law and equal protection of the laws. Long, *Cases on Constitutional Law*.

Morland.

208. CORPORATIONS.—(E) Sem. 2. Cr. 3.

Formation and distinguishing features; promotion; liability for torts and crimes; including offenses under the anti-trust acts; de facto corpora-

tions; ultra vires transactions; officers, stockholders, and creditors; corporate reorganization. Richards, Cases on Corporations, second edition.

Berry.

158. DAMAGES.—(D) Sem. 1. Cr. 2.

Compensatory damages; nominal, liquidated, and discretionary damages; measure of recovery in specific tort and contract actions. Case book to be announced.

Gammon.

160-161. EQUITY.—(D) Sem. 1, Cr. 3; Sem. 2, Cr. 2.

Nature and scope of equity trusts, mortgages, injunctions; specific performance; reformation and rescission; recovery for benefits wrongfully retained. Cook, Cases on Equity.

Morland.

210. EVIDENCE.—(E) Sem. 1. Cr. 3.

Rules for the exclusion of evidence; function of court and jury; burden of proof; examination of witnesses. Hinton, Cases on Evidence, second edition.

Berry.

162. INSURANCE.—(D) Sem. 1. Cr. 2.

Nature and form of contract; insurable interest; concealment; representations and warranties; implied conditions; waiver and estoppel; beneficiaries; construction of common provisions. Woodruff's Cases on Insurance, second edition.

Finkle.

164. LEGAL ETHICS.—(D) Sem. 1. Cr. 1.

History and organization of the legal profession. Qualifications of lawyers; admission and discipline, duties and obligations. Costigan's Cases on Legal Ethics.

Rees.

167. MORTGAGES.—(E) Sem. 1. Cr. 2.

Nature; equitable mortgages; restrictions on right to redeem; priorities; obligations secured; extension of time; transfers; discharge; redemption; subrogation; foreclosure. Case book to be selected.

Gammon.

175. MUNICIPAL CORPORATIONS.—(D) Sem. 1. Cr. 3.

Definition and nature; creation; incorporations; powers; liabilities; state control of. Macy, Cases on Municipal Corporations.

Finkle.

180. PARTNERSHIP.—(D) Sem. 1. Cr. 2.

Nature, formation, purposes, membership; title to partnership property; firm name and good will; partner's liability; rights and duties of partners *inter se*; dissolution and notice; distribution of assets; limited partnerships and joint stock companies. Mechem's Cases on Partnership.

Finkle.

186. PERSONS AND DOMESTIC RELATIONS.—(D) Sem. 2. Cr. 2.

The law of husband and wife, parent and child, infancy, marriage and divorce. Woodruff, Cases on Persons and Domestic Relations, third edition.

Berry.

212. PRACTICE COURTS.—(E) Sem. 2. Cr. 2.

The actual trying of cases, beginning with the statement of facts, finding the law, drawing and filing pleadings, trial of the case, arguments, motion for new trial, appeal. Each student will both prosecute and defend in one or more criminal, divorce, and civil actions.

Trials will be both before the court and also by jury, with practice in selecting the jurors. The instructor will preside at all trials.

Finkle.

215. QUASI-CONTRACTS.—(E) Sem. 2. Cr. 2.

The obligations not based on contract or tort which are enforced by the courts, especially those imposed under equitable rules in cases of mistake, constraint, waiver of tort, and lack or failure of recompense for benefits received. *Thurston's Cases on Quasi-Contracts*.

Morland.

197. SALES.—(D) Sem. 2. Cr. 3.

Transfer of title to personal property; rights and remedies of buyer and seller; the Uniform Sales Act. *Woodward, Cases on Sales*, second edition.

Morland.

200. SURETYSHIP.—(E) Sem. 2. Cr. 2.

Kinds of suretyship; statute of frauds; surety's defenses due to original defects in his obligation or its subsequent discharge; surety's right to subrogation, indemnity, contribution, or exoneration; creditor's right to surety's securities. *Casebook* to be selected.

Rees.

217. TAXATION.—(E) Sem. 2. Cr. 2.

Jurisdiction; classification of taxes; public purpose; assessment; exemptions; remedies for illegal taxation; excise and inheritance taxes; federal income and estate tax system. *Beale, Cases on Taxation*, revised edition.

Rees.

222. TRIAL PRACTICE.—(E) Sem. 1. Cr. 2.

Complaints, summons, service and return, appearance, pleas, continuance, jury, right to open and close, opening statement, judgment on pleading, demurrer, dismissal, nonsuit, directed verdict, instructing jury, arguments, special interrogatories, verdicts, judgment, motion for new trial and arrest of judgment, trial and finding of the court, levy, execution and sale. *McBime, Cases on Trial Practice*, second edition.

Finkle.

223. TRUSTS.—(E) Sem. 1. Cr. 3.

Nature and elements of a trust; charitable trusts; resulting and constructive trusts; remedies of cestui que trust; duties of trustees. *Scott, Cases on Trusts and Assigned Work*.

Morland.

159. WILLS.—(D) Sem. 1. Cr. 2.

Testamentary capacity, kinds of wills, execution, revocation, probate of wills, testate and intestate succession to real and personal property, executors and administrators, administration of decedents' estates, distribution, final report and discharge. *Costigan's Cases on Wills*.

Finkle.

226. LAW LECTURES.—(E) Cr. 0.

Some twenty lectures on subjects of practical importance given by men who are active in the profession of the Law. The subjects included are Appellate Practice, Federal Jurisdiction and Procedure, General Practice, Juvenile Courts, Legal Ethics, and Legal History. A comprehensive examination is given. Required of juniors and seniors. The lecturers and their subjects are:

Judge Grant Crumpacker.....	Federal Jurisdiction and Practice
Judge A. J. Link.....	Juvenile Courts
Judge H. H. Loring.....	Corporation Practice; General Practice
Attorney W. W. Miller.....	Legal Ethics
Attorney D. J. Moran.....	Appellate Practice
Judge E. M. Norton.....	Legal History

REGISTER OF STUDENTS 1928-1929

THE COLLEGE OF LIBERAL ARTS

Seniors

Bachmann, Arnold Henry.....	Blue Island, Ill.
Bolte, Irene Verola.....	Columbus, Wis.
Butterfield, Dayle.....	St. Paul, Minn.
Couve, Forrest Franklin.....	Kewanee, Ill.
Doran, James John.....	Valparaiso, Ind.
Finger, Fred William.....	DuBois, Pa.
Gunder, Le Roy Emmanuel.....	Chesterton, Ind.
Heinecke, Edna.....	Sheboygan, Wis.
John, So-Da.....	Hinghua City, Fukien, China
Kauth, William Matthew.....	Calumet, Mich.
Klein, Joseph.....	Valparaiso, Ind.
Kraushaar, Wilfred Paul.....	Warsaw, Ill.
Larson, Kenneth.....	Valparaiso, Ind.
Lehman, Edith Katherine.....	St. Louis, Mo.
Luebckert, Walter Frederick.....	Bay City, Mich.
Mennen, Sarah Elizabeth.....	Conover, N. C.
Meyer, Gilbert Ludwig.....	Elk Mound, Wis.
Montie, Clara Ann.....	Olean, N. Y.
Myers, George Lawrence.....	Arcadia, Ind.
Paar, Norman.....	Warsaw, Ill.
Pautsch, Nina Anna.....	Juneau, Wis.
Pietsch, Orville Forrest.....	Kouts, Ind.
Reindel, Irene Louise.....	Detroit, Mich.
Ruge, Max G.....	Valparaiso, Ind.
Salas, Antonio.....	Edificio Espana, Mexico, D. F.
Salter, Hazel Lida.....	Hayward, Wis.
Salzman, Minnie Mary.....	Nego, Ill.
Schiewe, Edwin Otto.....	Oak Park, Ill.
Schultze, William Albert.....	Stanton, Nebr.
Scofield, Robert Eugene.....	Crisman, Ind.
Scribner, Albert Frank.....	Valparaiso, Ind.
Smith, Fay Charles.....	Auburn, N. Y.
Taggart, Karl Lester.....	Griffith, Ind.
Wagner, Alma H.....	South Euclid, Ohio
Watkins, John Haden.....	Monroe, La.
Worstell, Nellie Avis.....	Valparaiso, Ind.
Zinn, Ethel Richards.....	Valparaiso, Ind.
Zwintscher, Herman Gustav.....	Plato, Minn.

Juniors

Anderson, Elmer Adelbert.....	Grandview, Wis.
Armstrong, Albry Borts.....	Toledo, Ohio
Baade, Marian Christine.....	Logansport, Ind.
Bauer, Lois Mildred.....	Westville, Ind.

Baumann, Gretchen Sylvia.....	Olean, N. Y.
Berg, Greta Irene.....	New Lexington, Ohio
Bostedt, Cyril Julius.....	Gurnee, Ill.
Calderhead, William Alton.....	Valparaiso, Ind.
Demyan, Joseph.....	Kingston, Pa.
Dobrowolsky, Peter.....	Gary, Ind.
Fiting, Clarence John.....	Hemlock, Mich.
Geisz, William Robert.....	Mt. Carroll, Ill.
Graebner, Herbert Conrad.....	Bay City, Mich.
Harms, Louise.....	Cologne, Minn.
Hennig, Theo. A.....	Oshkosh, Wis.
Hesterman, Ferdinand Fred.....	Archbold, Ohio
Hinz, Theodore Adams.....	Grosse Pointe, Mich.
Hockelberg, Gertrude C.....	Valparaiso, Ind.
Hood, Montrose Gotham.....	Valparaiso, Ind.
Huebsch, Rudolph Augustus.....	West Henrietta, N. Y.
Hufnagel, Chas. E.....	Oquawka, Ill.
Hummert, Fred Rudolph.....	St. Louis, Mo.
Hunt, Hazel Grace.....	Wanatah, Ind.
Hutelin, Arthur Paul.....	Houghton, Mich.
Kahrs, Edward Carl.....	Suttons Bay, Mich.
Kroencke, Helene Sophia.....	Valparaiso, Ind.
Krouse, Glen.....	Russell, Iowa
Mayer, Albert Charles.....	Calumet City, Ill.
Mohlmann, Violet Theodora.....	Platte Center, Nebr.
Mowbray, Arthur Mackenzie.....	Walkerton, Ind.
Mull, Lola Marriah.....	Pekin, Ind.
Nieting, Clara Marie.....	Lowden, Iowa
Paris, Kenneth Monroe.....	Wisconsin Veterans Home, Wis.
Rahe, Ruth Leona.....	Cleveland, Ohio
Rosenbaum, Lydia A.....	Valparaiso, Ind.
Schoknecht, Dorothy Julia.....	Kalispell, Mont.
Schulte, Henry George.....	Cleveland, Ohio
Schulte, Mildred Anna.....	Cleveland, Ohio
Seabold, Margaret Mina.....	Fort Wayne, Ind.
Siler, John Stetson.....	Jellico, Tenn.
Simms, Russell Earl.....	Columbus, Ohio
Smith, Arthur Clarence.....	Bay City, Mich.
Stolp, Bertha Caroline.....	Tyro, Kan.
Strand, Christian Preus.....	Chicago, Ill.
Weinlaeder, Esther Gertrude.....	Fort Lee, N. J.
Whitehead, George Lee.....	Menomonee Falls, Wis.

Sophomores

Abner, John Riley.....	Hamlet, Ind.
Ackerman, Edwin Robert.....	Mankato, Minn.
Agather, Margaret Wanda.....	Kalispell, Mont.
Agather, Verona L.....	Kalispell, Mont.
Ahrens, Martin.....	Dodge Center, Minn.

Aicher, Hilda M.....	Michigan City, Ind.
Baur, Walter William.....	Fort Wayne, Ind.
Behnke, Helen Ann.....	Gary, Ind.
Boger, Mildred Caroline.....	Hinsdale, Ill.
Brasser, Irving Eugene.....	Oostburg, Wis.
Bucci, August.....	Eveleth, Minn.
Carlson, Marvin Clarence.....	Valparaiso, Ind.
Coplin, Gayle A.....	Valparaiso, Ind.
Delove, Sidney Laudon.....	Chicago, Ill.
Dettelbach, Robert F.....	La Salle, Ill.
Douthett, Harold J.....	Highland, Ind.
Edwards, Vaughn.....	Weldon, Ill.
Endorf, Lydia Dorothea.....	Campbell, Nebr.
Faucette, John Herbert.....	Burlington, N. C.
Ferro, Aurelio.....	Bogota, Colombia, S. A.
Fricke, Marie Meta.....	Defiance, Ohio
Friedrich, Maria Bertha.....	Hobart, Ind.
Fudenski, John Ira.....	Hanna, Ind.
Geller, Edward Louis.....	Fort Wayne, Ind.
Giessing, Melvin P.....	Farmington, Mo.
Gilbert, Gena Marian.....	Elwood, Ill.
Gilliland, Henrietta Coreen.....	Valparaiso, Ind.
Greive, Edward Gerhard.....	Cleveland, Ohio
Hartmeister, Nathan John.....	Paullina, Iowa
Hawkins, Alva Owen.....	East Chicago, Ind.
Heinecke, Herman Otto.....	Sheboygan, Wis.
Helbig, Lawrence.....	Comstock, Wis.
Henline, John William.....	Fort Wayne, Ind.
Holtman, Carl Emmitt.....	Chebanse, Ill.
Irk, Pearl Wilma.....	Michigan City, Ind.
Johnson, Pauline Street.....	Valparaiso, Ind.
Kahnert, Roland Leonard.....	St. Paul, Minn.
Keene, Mildred Mills.....	Valparaiso, Ind.
Klein, Dorothy Mae.....	Farmington, Mo.
Koenig, Louise Marie.....	Cleveland, Ohio
Korff, Valada Boehne.....	Evansville, Ind.
Kretowicz, Stanislaw.....	Youngstown, Ohio
Kroencke, Selma Barbara.....	Valparaiso, Ind.
Krug, Frank August.....	Wheatfield, Ind.
Kruger, Alice Louise.....	Medaryville, Ind.
Krumm, Alyce Louise.....	Chicago, Ill.
Lankenau, Otto Edward.....	Napoleon, Ohio
Luecke, Esther Marie.....	Milford, Ill.
Medsgger, Harlan Culver.....	Scottsdale, Pa.
Meilander, Clarence Frank.....	Bay Village, Ohio
Meister, Leo Conrad.....	Valparaiso, Ind.
Mignerey, Clifford Dovernoy.....	Torrington, Conn.
Millard, Marion Crawford.....	Michigan City, Ind.
Mullin, William B.....	Rochester, N. Y.

Never, John Henry.....	Sheboygan Falls, Wis.
Noel, Paul Norman.....	Vivian, W. Va.
Nolde, Adelaide Caroline.....	Richmond, Va.
Padol, Walter Stanley.....	Gary, Ind.
Phillips, Evelyn.....	Valparaiso, Ind.
Prange, Ernest Louis.....	Adrian, Mich.
Pratt, Edward Wallace.....	Hanna, Ind.
Ramage, Edward Davison.....	Bloomington, Ill.
Rosenbaum, John Robert.....	Wanatah, Ind.
Scharbach, Emil Edwin.....	Hobart, Ind.
Schepper, Waldo.....	Gary, Ind.
Schmult, Ernest.....	Detroit, Mich.
Schramm, Leonard George.....	Farmington, Mo.
Schulson, Arthur.....	South Haven, Mich.
Schultz, Reinhardt H.....	Lansing, Ill.
Schulz, John Frederick.....	Salamanca, N. Y.
Seidel, Fred George.....	Bay City, Mich.
Sheley, Mary Ellen.....	Valparaiso, Ind.
Smith, Roy Byron.....	Fowlerville, Mich.
Spindler, John David.....	Valparaiso, Ind.
Stuenkel, Fred Joe.....	Hinsdale, Ill.
Summers, Ruth Mette.....	St. Louis, Mo.
Thede, Le Roy Louis.....	Durant, Iowa
Thompson, Luella.....	Hebron, Ind.
Tillman, Reuel Quintin.....	Zion, Ill.
Titus, Rhoda.....	Hebron, Ind.
Tursman, Donald Lee.....	Valparaiso, Ind.
Uphaus, Leona Long.....	Valparaiso, Ind.
Weiss, Richard Ernest.....	Bay City, Mich.
Weerts, Florence.....	Hinsdale, Ill.
Wiedenheft, Alvin Henry.....	Good Thunder, Minn.
Wright, Kenneth J.....	Hebron, Ind.

Freshmen

Agather, Alfons Julius.....	Kalispell, Mont.
Ahlbrand, Albert E.....	Seymour, Ind.
Aldrich, Donald Barker.....	Bay Village, Ohio
Auch, Herman Henry.....	Grosse Point, Mich.
Barnes, Helen Lola.....	North Chicago, Ill.
Bartz, Irene Ellen.....	Waukegan, Ill.
Baur, John Christian, Jr.....	Fort Wayne, Ind.
Blake, Marjorie Louise.....	Valparaiso, Ind.
Blickensderfer, Wills.....	Lebanon, Mo.
Bloedel, George Edward.....	Chicago, Ill.
Bohning, Martha Marie.....	Garfield Heights, Ohio
Briel, Alfons John Ernst.....	Bloomington, Ill.
Bruscke, Karl Henry.....	Good Thunder, Minn.
Buechner, Alma Barbara.....	Willshire, Ohio
Calovus, John.....	Oak Park, Ill.

Claudon, Loy Gertrude.....	Valparaiso, Ind.
Cole, Edna Viola.....	Crown Point, Ind.
Dau, Martha.....	St. Louis, Mo.
Davidenas, Stephan.....	Hammond, Ill.
Dorre, Edwin.....	Chicago, Ill.
Dressler, Arnet Bert.....	Bradley, Ill.
Duchay, John, Jr.....	Chicago, Ill.
Eichmann, Walter William.....	Chicago, Ill.
Fisher, Bonnie Lorraine.....	Valparaiso, Ind.
Fisher, Margaret.....	Valparaiso, Ind.
Eades, Mrs. Olive.....	Medaryville, Ind.
Fischer, Paul.....	Valparaiso, Ind.
Fitz, William Edward.....	Chicago, Ill.
Gaiefsky, Edward Lloyd.....	Detroit, Mich.
Gieseke, Eleanor Martha.....	Park Ridge, Ill.
Gother, Edgar Carl.....	North Milwaukee, Wis.
Grueber, Frank John.....	Deshler, Nebr.
Guenther, Byron Philip.....	Chicago, Ill.
Hartman, Harland Spencer.....	Kingwood, W. Va.
Hass, Henry Reinhard.....	Gary, Ind.
Haug, Bessie O.....	Gary, Ind.
Hebberd, Mrs. Margaret.....	South Orange, N. J.
Heineman, Esther Elizabeth.....	Kirkwood, Mo.
Hildreth, Max Monterey.....	Valparaiso, Ind.
Huegli, Wilfred Albert.....	Detroit, Mich.
Huth, Arthur.....	Jenison, Mich.
Ishido, Kinichi.....	Lahaina, Maui, Hawaii, T. H.
Jannash, Warren Allen.....	Crisman, Ind.
Joel, Irving.....	New York City
Johnson, Adeline Janice.....	Chesterton, Ind.
Kammer, Erwin William.....	Kingston, Ill.
Kaub, Clara Marie.....	Park Ridge, Ill.
Kaufmann, Mark W.....	Buckley, Ill.
Kellerman, Marie.....	Vero Beach, Fla.
Kraft, Ralph W.....	Valparaiso, Ind.
Kruse, Harold Charles.....	Williamsburg, Iowa
Kuchenbecker, Karl Deter.....	Harbor Beach, Mich.
Kumnick, Lester.....	Hillside, Ill.
Lanam, Sylvia.....	Medaryville, Ind.
Lazarczyk, Lawrence.....	Buffalo, N. Y.
Leinberger, Herbert.....	Union Grove, Wis.
Liat, Siem Kie.....	Poerbolinggo, Java, Dutch E. Indies
Lundberg, Robert Church.....	Chicago, Ill.
McCord, Allan William.....	Valparaiso, Ind.
Mann, Sylvester Ambrose.....	Wanatah, Ind.
Manzey, Leo Louis.....	Sherburn, Minn.
Marshall, Hazel Lucille.....	Valparaiso, Ind.
Marshall, Wilbert Burhoe.....	Fort Wayne, Ind.
Martens, Edward Emil.....	Detroit, Mich.

Mickow, Burton Ed.....	Hamlet, Ind.
Monnig, Esther Marie.....	Evansville, Ind.
Newell, Gilbert Leonard.....	Hammond, Ind.
Nierman, Allan Herman.....	Brownstown, Ind.
Ommen, Melvin Richard.....	Arenzville, Ill.
Perrella, John.....	Waterbury, Conn.
Peters, Theodore Frank.....	Wayne, Mich.
Randle, Clifford Clyde.....	Rensselaer, Ind.
Reibly, Irene.....	Valparaiso, Ind.
Reidenbach, Louise Anna.....	South Bend, Ind.
Reister, Andrew	Jenison, Mich.
Riedel, Carl Richard.....	Fort Wayne, Ind.
Ruge, Harry.....	Valparaiso, Ind.
Sauer, Hulda Katherine.....	Bremen, Ind.
Schaap, Raymond Hugo.....	Ft. Smith, Ark.
Seider, Melvin Richard.....	Random Lake, Wis.
Shauer, Audrey Nell.....	Valparaiso, Ind.
Shimek, Le Roy.....	Lakewood, Ohio
Shriver, Eva	Clarks Hill, Ind.
Siegrist, Jack Christian.....	Bay Village, Ohio
Smith, Ruben Edgar.....	Princeton, Minn.
Straub, Helen Augusta	Webster Groves, Mo.
Thies, Edna Marie.....	Flossmoor, Ill.
Thorsen, Lewis Ribert.....	Hammond, Ind.
Trifunovich, Cyril Nickifor.....	Chicago, Ill.
Voss, Esther Anne.....	LaPorte, Ind.
Wagemann, Walter C. H.....	Chicago, Ill.
Wilhelm, Chester Louis.....	Beaver Falls, Pa.
Williams, Alma Elsie.....	Marble, Colo.
Willmann, Elmer Albert.....	Hannibal, Mo.
Winship, Frank Eugene.....	Pueblo, Colo.
Wissman, Clarence Robert.....	Detroit, Mich.
Wood, Martha Louise.....	Valparaiso, Ind.
Word, Beulah	Minden, La.
Zimmerman, Jack	Valparaiso, Ind.

Unclassified

Anderson, Edward Andrew.....	Valparaiso, Ind.
Andrews, Ruth Lenora.....	Valparaiso, Ind.
Auble, Gladys	Valparaiso, Ind.
Baker, Ruth	Valparaiso, Ind.
Bisbee, Eleanor T.....	Chicago, Ill.
Blickensderfer, Irene	Valparaiso, Ind.
Boge, Harry Jack.....	Crown Point, Ind.
DeWalt, Philip O.....	Ladysmith, Wis.
Doran, Margaret Donna.....	Valparaiso, Ind.
Ditlow, Beulah Jane.....	Valparaiso, Ind.
Ewing, Oliver D.....	Valparaiso, Ind.
Hart, Robert D.....	Valparaiso, Ind.

Hooven, Mrs. Herbert N.....	Valparaiso, Ind.
Kinne, Lorraine	Valparaiso, Ind.
Seveland, Edith	Valparaiso, Ind.
Sheviak, Phyllis Gertrude.....	Wanatah, Ind.
Timmons, Margaret Dick.....	Valparaiso, Ind.

Special

Ellice, John Horne.....	Hartford, Conn.
Lloyd, Ida M.....	Valparaiso, Ind.
O'Keefe, Mrs. Bertha Brooke.....	Valparaiso, Ind.
Stein, George Raymond.....	South Haven, Mich.

THE SCHOOL OF LAW

Third Year

Arnold, Alvin M.....	Elkhart, Ind.
Blaese, Robert	Valparaiso, Ind.
Brenton, Fannie Lyman.....	Petersburg, Ind.
Buitrago, Emilio A.....	San Lorenzo, Porto Rico
Clark, Howard D.....	Valparaiso, Ind.
Cooper, Errett Reed.....	La Porte, Ind.
Cudlovich, Joseph George.....	Indiana Harbor, Ind.
Dumas, Francis Edward.....	Fowler, Ind.
Freeze, Ralph Lee.....	Valparaiso, Ind.
Gesell, Harold John Ernest.....	Elma, Iowa
Granger, Forest Lee.....	Hammond, Ind.
Hector, Harold Christian.....	Hammond, Ind.
Heberd, Raymond Conklin.....	Chicago, Ill.
McCallum, Woodburn Alexander.....	Valparaiso, Ind.
Pfeiffer, Harry August.....	Pensacola, Fla.
Rainey, Dale	King City, Mo.
Schuetz, Carl John.....	Cleveland, Ohio
Scott, George	Chicago, Ill.
Van Buskirk, Charles Jacob.....	Valparaiso, Ind.
Zimmerman, Englebert	Valparaiso, Ind.

Second Year

Anderson, Clarence Holland.....	Valparaiso, Ind.
Berbling, Joe Charles.....	Cairo, Ill.
Brady, Rowell Clifford.....	Conover, N. C.
Judis, Ben Stanley.....	Indiana Harbor, Ind.

First Year

Beer, Wilbert Paul.....	Mt. Prospect, Ill.
Clemens, Robert Knight.....	Gary, Ind.
Dahms, Hilbert William.....	Oconomowoc, Wis.
Mitchell, Clyde Edward.....	Kernan, Ill.
Ruge, Max G.....	Valparaiso, Ind.

THE COLLEGE OF PHARMACY

Juniors

Bacos, James J.	Lowell, Mass.
Berger, Hilbert Arthur	Chicago, Ill.
Blumenfeld, Jack Carl	Indiana Harbor, Ind.
Caffarello, Joseph	Chicago, Ill.
Carlson, Roger S.	Chesterton, Ind.
Churlis, Matthew	Chicago, Ill.
Grbac, Kreso	Chicago, Ill.
LaRocca, Frank Jerome	Chicago, Ill.
Liberson, Sam	Chicago, Ill.
Maciejewski, Joseph M.	Chicago, Ill.
Merz, Earl Henry	Chicago, Ill.
Netz, Wallace L.	Libertyville, Ill.
Padulo, John Thomas	Chicago, Ill.
Palermo, Amiel	Chicago, Ill.
Pencek, Joseph S.	Chicago, Ill.
Petrenas, Elizabeth	Chicago, Ill.
Roeder, Leonard M.	Dwight, Ill.
Roeder, Logan Carl	Dwight, Ill.
Rosenthal, Arthur D.	Chicago, Ill.
Rosenthal, Irwin	Chicago, Ill.
Rydzenski, Christina Blondina	Chicago, Ill.
Shlensky, Reuben	Chicago Heights, Ill.
Spalding, Carl	Wanda, Minn.
Stone, James E.	River Forest, Ill.
Szendrey, Alexander	Gary, Ind.
Toepel, Mark Fred	Desplaines, Ill.
Tomasek, Geo. P.	Chicago, Ill.
Tomporowski, Jerome F.	Cicero, Ill.
Uhlenhop, Henry L.	Litchfield, Ill.
Ulitzky, Henry	Chicago, Ill.

Sophomores

Amador, Esteban	Camuy, Porto Rico
Bonick, John Joseph	Chicago Heights, Ill.
Christy, William E.	Valparaiso, Ind.
Filmanowicz, Edward Vincent	Chicago, Ill.
Glienke, Janet C. E.	Milwaukee, Wis.
Hrycyna, Walter John	Chicago, Ill.
Jacobs, Mitchell	Green Bay, Wis.
Kominakis, John James	Chicago, Ill.
Krop, Walter	Chicago, Ill.
Mendralski, Jeanette Mary	Chicago, Ill.
Mogensen, Harry Charles	Chicago, Ill.
Murray, Carl	Fort Wayne, Ind.
Rosen, Frank M.	Chicago, Ill.
Sauter, Verne M.	Valparaiso, Ind.

Schupack, Norman	Chicago, Ill.
Spranza, John James	Chicago, Ill.
Striegel, Clifford Leslie	St. Anne, Ill.
Stypinski, Stanley S.	Chicago, Ill.
Zucker, Joseph Norman	Chicago, Ill.

Freshman

Antenore, Americo Joseph	Chicago, Ill.
Basso, Raymond A.	Sesser, Ill.
Bernstein, Jack C.	Chicago, Ill.
Biondi, Frank Joseph	Mittineague, Mass.
Daugherty, Henry Saylor	Hammond, Ind.
Donnadieu, Robert	Nogales, Sonora, Mex.
Forszt, Joseph John	East Chicago, Ind.
Garrison, Howard Charles	McCool, Ind.
Kirincich, Nicholas	Chicago, Ill.
Kujawski, Gregory George	Chicago, Ill.
Merz, Ralph Leonard	Chicago, Ill.
Novak, Norman	Chicago, Ill.
Novak, Morton	Chicago, Ill.
Paz, Francis	Chicago, Ill.
Peper, Siegmund David	Holgate, Ohio
Pietrusinski, Michael Arthur	Chicago, Ill.
Radler, Isadore	Chicago, Ill.
Riley, Donald Edwin	Valparaiso, Ind.
Schmidt, Alfred Paul	Calumet City, Ill.
Smetara, Stephen	Washington, Ill.
Tomaso, Carlo Joseph	Chicago, Ill.
Tomaso, Joseph Michael	Chicago, Ill.
Urbanski, Aloysius John	Chicago, Ill.
Zalman, Harry Nathan	Chicago, Ill.
Zitko, Susanne	East Chicago, Ind.

SUMMARY OF ATTENDANCE FOR THE YEAR 1928-1929

The College of Liberal Arts

	Men	Women	Total
Seniors	26	12	38
Juniors	27	19	46
Sophomores	56	30	86
Freshmen	67	32	99
Unclassified	5	12	17
Specials	2	2	4
Total	183	107	290

The School of Law

Third Year	20	..	20
Second Year	4	..	4
First Year	5	..	5
Specials
	<hr/>	<hr/>	<hr/>
Total	29	..	29

The College of Pharmacy

	Men	Women	Total
Seniors
Juniors	28	2	30
Sophomores	17	2	19
Freshmen	24	1	25
Specials
	<hr/>	<hr/>	<hr/>
Total	69	5	74
	<hr/>	<hr/>	<hr/>
Grand Total (Gross Enrollment).....	281	112	393
Deduct Duplicates	1	..	1
	<hr/>	<hr/>	<hr/>
Grand Total (Net Enrollment).....	280	112	392

GEOGRAPHICAL DISTRIBUTION OF STUDENTS

School Year 1928-1929

United States—Continental		Insular and Non-Contiguous Territories	
State	No. of Students	Country	No. of Students
Indiana	140	Porto Rico	2
Illinois	105	Hawaii	1
Michigan	25		
Ohio	22	Total	3
Wisconsin	19		
Minnesota	13		
Missouri	13		
New York	8		
Iowa	6		
Pennsylvania	4		
Montana	4		
Nebraska	4		
Connecticut	3		
North Carolina	3		
New Jersey	2		
Virginia	2		
Florida	2		
Louisiana	2		
Massachusetts	2		
Arkansas	1		
Colorado	1		
Kansas	1		
Tennessee	1		
West Virginia	1		
	—		
Total	384		

Foreign Countries	
Mexico	2
China	1
Dutch East Indies.....	1
Colombia, South America....	1
	—
Total	5

Recapitulation	
United States—Continental ...	384
United States Insular and Non-Contiguous Territories.....	3
Foreign Countries	5
	—
Total	392
Number of States-Represented.	24
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